

Real GDP and real GDP per capita for selected regions/countries: Selected years, 1960–2005

Year	U.S.	EU-15	EU-25	France	Former West		Italy	Spain	UK	Japan	South Korea
					Germany	Germany					
GDP (millions 2002 PPP\$)											
1960.....	2,804,909	3,083,665	NA	497,776	700,121	NA	455,807	150,164	670,120	530,366	38,678
1965.....	3,573,130	3,961,990	NA	659,335	883,919	NA	606,278	243,779	784,421	829,639	52,466
1970.....	4,223,547	4,968,058	NA	855,685	1,080,057	NA	800,409	341,543	886,574	1,433,204	88,919
1975.....	4,819,584	5,782,347	NA	1,009,834	1,202,589	NA	916,194	473,575	985,690	1,789,608	141,946
1980.....	5,797,710	6,741,131	NA	1,175,452	1,412,149	NA	1,139,283	550,417	1,077,808	2,217,753	199,589
1981.....	5,942,404	6,748,427	NA	1,187,518	1,413,448	NA	1,144,681	553,259	1,063,761	2,288,067	211,977
1982.....	5,831,028	6,811,273	NA	1,217,376	1,400,242	NA	1,149,925	563,168	1,080,231	2,358,013	228,060
1983.....	6,075,320	6,935,898	NA	1,231,615	1,424,922	NA	1,163,933	577,405	1,118,591	2,412,772	254,284
1984.....	6,517,737	7,096,652	NA	1,249,711	1,464,972	NA	1,193,833	585,810	1,146,543	2,507,286	276,348
1985.....	6,770,480	7,267,878	NA	1,267,237	1,494,631	NA	1,227,377	597,707	1,187,001	2,617,706	294,442
1986.....	7,003,587	7,476,121	NA	1,297,316	1,529,702	NA	1,262,228	617,445	1,239,217	2,693,499	328,464
1987.....	7,249,784	7,699,038	NA	1,330,095	1,552,433	NA	1,301,313	652,591	1,298,216	2,805,519	366,298
1988.....	7,555,002	8,024,172	NA	1,388,546	1,610,235	NA	1,351,656	688,269	1,362,891	2,979,322	407,588
1989.....	7,816,311	8,562,588	9,441,624	1,444,878	1,668,470	1,923,821	1,390,613	724,609	1,392,591	3,123,261	433,610
1990.....	7,952,915	8,781,282	9,608,842	1,482,730	1,763,635	1,988,568	1,420,696	756,838	1,398,071	3,282,043	474,839
1991.....	7,937,472	8,899,311	9,648,807	1,501,370	1,852,643	2,039,420	1,442,486	776,107	1,379,003	3,392,014	519,441
1992.....	8,202,268	9,011,750	9,740,436	1,528,104	1,876,742	2,084,815	1,453,636	783,319	1,382,835	3,424,984	549,962
1993.....	8,422,988	8,982,607	9,715,105	1,511,297	1,845,376	2,068,090	1,440,724	775,239	1,416,407	3,433,464	583,695
1994.....	8,765,116	9,234,015	9,992,604	1,542,038	1,882,667	2,123,042	1,471,727	793,715	1,478,833	3,471,185	633,522
1995.....	8,987,527	9,472,336	10,271,944	1,575,995	1,911,910	2,163,180	1,513,332	815,601	1,521,125	3,540,932	691,610
1996.....	9,324,131	9,636,087	10,472,817	1,592,976	1,929,788	2,184,683	1,524,159	835,314	1,562,511	3,662,560	740,013
1997.....	9,743,492	9,897,821	10,774,006	1,628,252	1,965,676	2,224,105	1,552,958	867,630	1,611,824	3,727,436	774,430
1998.....	10,150,315	10,188,530	11,096,714	1,684,805	NA	2,269,261	1,575,304	906,397	1,664,059	3,688,413	721,347
1999.....	10,601,918	10,499,588	11,436,698	1,739,338	NA	2,314,895	1,605,630	949,414	1,714,525	3,683,414	789,777
2000.....	10,990,046	10,912,604	11,889,011	1,809,335	NA	2,389,199	1,663,142	997,358	1,783,690	3,771,274	856,799
2001.....	11,072,552	11,125,052	12,126,326	1,842,887	NA	2,418,825	1,693,004	1,033,741	1,823,359	3,778,936	889,671
2002.....	11,249,544	11,251,703	12,278,151	1,861,805	NA	2,420,258	1,698,793	1,061,696	1,859,813	3,767,491	951,684
2003.....	11,531,879	11,378,631	12,445,772	1,882,050	NA	2,415,719	1,699,424	1,092,179	1,906,647	3,816,672	981,159
2004.....	11,982,475	11,630,144	12,753,133	1,925,699	NA	2,445,786	1,717,460	1,126,014	1,966,361	3,904,530	1,027,546
2005.....	12,368,811	11,805,379	12,979,805	1,948,452	NA	2,468,054	1,716,853	1,164,487	2,002,214	4,006,992	1,068,239

Real GDP and real GDP per capita for selected regions/countries: Selected years, 1960–2005

Year	U.S.	EU-15	EU-25	France	Former West		Italy	Spain	UK	Japan	South Korea
					Germany	Germany					
Real GDP per capita (2002 PPP\$)											
1960.....	15,525	10,314	NA	10,899	12,630	NA	9,080	4,901	12,795	5,637	1,561
1965.....	18,389	12,668	NA	13,521	15,079	NA	11,662	7,598	14,433	8,390	1,828
1970.....	20,597	15,360	NA	16,849	17,808	NA	14,916	10,082	15,936	13,735	2,758
1975.....	22,316	17,368	NA	19,141	19,450	NA	16,487	13,316	17,534	16,040	4,023
1980.....	25,459	19,907	NA	21,820	22,937	NA	20,182	14,682	19,139	18,986	5,235
1981.....	25,840	19,862	NA	21,931	22,915	NA	20,259	14,656	18,867	19,448	5,474
1982.....	25,113	20,008	NA	22,364	22,717	NA	20,340	14,827	19,174	19,906	5,799
1983.....	25,929	20,345	NA	22,536	23,199	NA	20,553	15,122	19,839	20,230	6,371
1984.....	27,577	20,782	NA	22,744	23,947	NA	21,056	15,270	20,306	20,888	6,839
1985.....	28,392	21,245	NA	22,969	24,493	NA	21,635	15,511	20,964	21,678	7,216
1986.....	29,103	21,804	NA	23,423	25,050	NA	22,248	15,952	21,819	22,170	7,970
1987.....	29,859	22,401	NA	23,910	25,418	NA	22,939	16,784	22,783	22,979	8,801
1988.....	30,834	23,267	NA	24,852	26,204	NA	23,824	17,624	23,844	24,299	9,697
1989.....	31,601	23,586	21,815	25,611	26,883	24,519	24,510	18,478	24,293	25,370	10,215
1990.....	31,795	24,040	22,092	26,134	27,763	24,971	25,037	19,233	24,317	26,567	11,077
1991.....	31,312	24,250	22,087	26,314	28,914	25,416	25,419	19,667	23,914	27,367	11,991
1992.....	31,929	24,438	22,198	26,634	28,933	25,784	25,574	19,806	23,897	27,548	12,555
1993.....	32,364	24,249	22,053	26,211	28,159	25,409	25,264	19,563	24,409	27,541	13,177
1994.....	33,272	24,837	22,610	26,630	28,587	25,994	25,739	19,997	25,404	27,766	14,147
1995.....	33,717	25,399	23,173	27,102	28,900	26,407	26,422	20,518	26,035	28,250	15,279
1996.....	34,576	25,765	23,564	27,282	29,044	26,593	26,569	20,986	26,656	29,150	16,182
1997.....	35,702	26,396	24,175	27,775	29,494	27,033	27,018	21,769	27,408	29,593	16,772
1998.....	36,761	27,106	24,922	28,621	NA	27,577	27,373	22,713	28,187	29,216	15,483
1999.....	37,960	27,863	26,484	29,422	NA	28,115	27,874	23,763	28,916	29,119	16,813
2000.....	38,925	28,875	27,462	30,470	NA	28,977	28,814	24,924	29,967	29,765	18,095
2001.....	38,848	29,352	27,937	30,891	NA	29,303	29,268	25,787	30,530	29,781	18,652
2002.....	39,105	29,609	28,222	31,069	NA	29,296	29,326	26,442	31,042	29,650	19,839
2003.....	39,718	29,871	28,543	31,273	NA	29,224	29,301	27,157	31,727	30,002	20,355
2004.....	40,892	30,463	29,186	31,870	NA	29,578	29,582	27,954	32,625	30,664	21,219
2005.....	41,824	30,858	31,098	32,123	NA	29,845	29,548	28,866	33,127	31,448	21,962

NA = not available

EU = European Union; GDP = gross domestic product; PPP = purchasing power parity; UK = United Kingdom

NOTES: Real GDP converted to U.S. dollars using 1999 PPP. EU-25 excludes Bulgaria and Romania. EU-15 includes member countries before expansion of membership on 1 May 2004. EU-15 data include former West Germany between 1960 and 1988 and unified Germany between 1989 and 2005.

SOURCE: Conference Board and Groningen Growth and Development Centre, Total Economy Database, <http://www.ggdcc.net>.

Appendix table 6-2

GDP per hours worked, by selected region/country: Selected years, 1960–2005

Year	U.S.	EU-15	EU-25	France	Former West		Italy	Spain	UK	Japan	South Korea
					Germany	Germany					
1960.....	20.84	14.40	NA	13.04	12.37	NA	10.94	6.19	12.99	5.38	NA
1965.....	24.36	19.25	NA	16.47	15.92	NA	16.29	9.50	15.07	8.03	2.86
1970.....	26.84	23.77	NA	21.44	20.71	NA	21.50	12.43	18.21	12.87	4.07
1975.....	29.76	28.64	NA	26.31	25.62	NA	25.60	17.05	21.43	16.50	4.87
1980.....	31.35	34.10	NA	31.22	29.99	NA	30.92	22.48	24.20	18.89	5.74
1981.....	32.07	34.87	NA	32.12	30.44	NA	31.22	23.60	25.11	19.47	5.98
1982.....	31.94	35.87	NA	34.41	30.78	NA	31.42	24.52	26.14	19.88	6.02
1983.....	32.69	36.82	NA	35.17	31.97	NA	31.91	25.69	27.33	20.09	6.71
1984.....	33.39	38.07	NA	35.74	33.03	NA	33.70	27.47	27.60	20.63	7.39
1985.....	33.91	38.85	NA	36.99	33.90	NA	34.02	28.56	28.09	21.54	7.59
1986.....	34.67	39.85	NA	37.91	34.61	NA	34.78	29.19	29.32	21.95	8.35
1987.....	34.95	40.56	NA	38.48	35.35	NA	35.89	29.60	30.21	22.64	8.59
1988.....	35.36	41.30	NA	39.61	36.50	NA	36.51	30.13	30.47	23.69	9.22
1989.....	35.60	33.52	32.50	40.71	37.82	33.13	37.37	30.86	30.42	24.62	9.61
1990.....	36.16	34.09	32.96	41.62	39.40	34.34	37.54	31.49	30.57	25.86	10.39
1991.....	36.60	34.45	33.19	42.11	41.02	34.11	37.55	31.91	31.05	26.66	11.09
1992.....	37.79	35.54	34.18	43.27	41.48	34.98	38.98	33.01	32.71	27.08	11.62
1993.....	37.92	36.26	34.82	43.77	42.15	35.53	39.55	34.30	34.12	27.94	12.21
1994.....	38.27	37.35	35.93	44.64	43.53	36.58	41.16	35.37	35.12	28.34	12.85
1995.....	38.30	38.03	36.66	45.12	44.88	37.51	42.38	35.48	35.61	29.11	13.57
1996.....	39.25	38.54	37.26	45.27	46.33	38.39	42.41	35.44	36.47	29.85	14.31
1997.....	39.85	39.36	38.12	46.10	47.85	39.35	42.97	35.48	37.06	30.50	14.91
1998.....	40.64	39.79	38.72	47.04	NA	39.82	43.22	35.28	37.74	30.74	15.06
1999.....	41.63	40.33	39.41	47.65	NA	40.39	43.66	35.32	38.44	31.48	15.51
2000.....	42.62	41.44	40.58	49.69	NA	41.44	44.47	35.27	39.74	32.12	16.28
2001.....	43.45	41.81	41.10	50.44	NA	42.19	44.71	35.18	40.22	32.58	16.77
2002.....	44.74	42.40	41.75	51.98	NA	42.83	44.16	35.52	41.26	33.10	17.72
2003.....	46.08	42.78	42.24	52.69	NA	43.35	43.74	35.10	42.20	33.55	18.45
2004.....	47.33	43.41	42.96	53.50	NA	43.65	44.23	34.87	43.31	34.48	19.04
2005.....	48.20	43.74	43.48	54.27	NA	44.23	44.42	34.62	43.60	35.51	19.54

NA = not available

EU = European Union; GDP = gross domestic product; PPP = purchasing power parity; UK = United Kingdom

NOTES: Real GDP converted to U.S. dollars using 1999 PPP. EU-25 excludes Bulgaria and Romania. EU-15 includes member countries before expansion of membership on 1 May 2004. EU-15 data include former West Germany between 1960 and 1988 and unified Germany between 1989 and 2005.

SOURCE: Conference Board and Groningen Growth and Development Centre, Total Economy Database, <http://www.ggdc.net>.

Appendix table 6-3

Hourly compensation costs for production workers in manufacturing, by selected region/country: Selected years, 1975–2005

Year	U.S.	EU-15	France	Germany	Italy	Spain	UK	Japan	South Korea
1975.....	6.16	4.80	4.50	NA	4.64	2.52	3.35	2.97	0.32
1980.....	9.63	9.40	8.90	NA	8.09	5.86	7.52	5.46	0.95
1981.....	10.62	8.39	7.99	NA	7.52	5.52	7.27	3.75	1.01
1982.....	11.43	8.08	7.82	NA	7.38	5.26	6.87	3.98	1.08
1983.....	11.84	7.87	7.71	NA	7.64	4.54	6.45	5.97	1.14
1984.....	12.27	7.39	7.26	NA	7.30	4.45	5.99	6.17	1.20
1985.....	12.71	7.61	7.48	NA	7.56	4.64	6.22	6.27	1.23
1986.....	12.99	10.30	10.22	NA	10.37	6.21	7.59	9.13	1.30
1987.....	13.30	12.69	12.20	NA	12.89	7.58	9.01	10.68	1.59
1988.....	13.61	13.73	12.85	NA	13.85	8.49	10.52	12.50	2.20
1989.....	14.04	13.53	12.55	NA	14.26	8.90	10.47	12.39	3.16
1990.....	14.81	16.58	15.36	NA	17.28	11.30	12.61	12.59	3.70
1991.....	15.52	17.19	15.52	NA	18.14	12.18	13.65	14.51	4.61
1992.....	15.95	18.85	17.31	NA	18.91	13.39	14.29	16.13	5.21
1993.....	16.37	17.57	16.46	23.89	15.38	11.49	12.48	18.86	5.63
1994.....	16.78	18.46	17.10	25.33	15.40	11.39	12.97	20.98	6.38
1995.....	17.17	21.07	19.26	30.10	15.69	12.70	13.79	23.47	7.28
1996.....	17.74	21.12	18.99	29.58	17.10	13.33	14.12	20.44	8.21
1997.....	18.20	19.50	17.10	25.96	16.06	12.07	15.68	18.98	7.85
1998.....	18.52	19.59	17.32	25.17	15.83	11.94	16.97	17.62	5.67
1999.....	18.90	19.40	17.00	24.57	15.55	11.92	17.33	20.44	7.36
2000.....	19.65	17.89	15.46	22.67	13.84	10.65	16.84	21.93	8.23
2001.....	20.52	17.88	15.65	22.47	13.61	10.78	16.85	19.35	7.72
2002.....	21.33	19.53	17.13	24.22	14.75	11.95	18.36	18.60	8.77
2003.....	22.20	23.83	21.14	29.64	18.11	15.01	21.33	20.26	9.69
2004.....	22.82	26.81	23.89	32.50	20.48	17.14	24.76	21.84	11.13
2005.....	23.65	27.52	24.63	33.00	21.05	17.78	25.66	21.76	13.56

NA = not available

EU = European Union; UK = United Kingdom

NOTES: Hourly compensation costs include direct pay and employer social insurance expenditures and other labor taxes. Hourly compensation costs computed in national currencies converted to U.S. dollars at prevailing market currency exchange rates. EU-15 includes member countries before expansion of membership on 1 May 2004.

SOURCE: Bureau of Labor Statistics, International Comparisons of Hourly Compensation Costs for Production Workers in Manufacturing (November 2006), <http://www.bls.gov/news.release/ichcc.toc.htm>, accessed 15 January 2007.

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
All knowledge-intensive services											
All regions/countries/economies	4,736,472	4,895,556	5,076,766	5,316,990	5,569,376	5,735,270	5,915,544	6,138,517	6,377,106	6,479,814	6,676,079
United States	2,142,758	2,196,515	2,229,405	2,312,061	2,409,421	2,500,716	2,520,306	2,578,908	2,635,177	2,671,637	2,738,873
EU	1,310,847	1,371,174	1,425,791	1,497,137	1,549,293	1,606,723	1,692,380	1,726,430	1,795,572	1,837,573	1,892,124
Austria	29,934	30,721	31,475	32,741	33,705	35,056	36,299	37,845	38,581	39,220	40,688
Belgium	44,743	45,893	47,240	49,249	51,383	53,386	54,649	55,414	56,692	58,301	60,632
Bulgaria	3,371	3,362	3,581	3,974	3,742	3,085	3,363	2,915	3,305	3,186	1,673
Czech Republic	10,679	11,107	11,480	11,402	12,773	12,639	12,395	11,299	11,830	12,645	9,905
Denmark	30,019	31,847	32,447	33,038	34,480	33,056	33,563	33,447	34,198	35,669	35,528
Finland	20,271	21,288	22,528	23,059	24,024	25,012	23,128	21,604	21,599	21,076	21,942
France	246,048	256,724	263,981	273,597	287,178	295,859	299,912	308,492	313,962	314,931	320,202
Germany	254,314	261,305	269,257	279,816	289,801	306,983	382,504	403,828	423,514	432,113	452,547
Greece	14,348	14,480	14,711	15,036	15,753	16,195	16,580	17,307	17,937	18,203	19,173
Hungary	5,824	6,163	6,647	7,127	7,600	7,478	7,668	8,657	9,460	10,111	9,548
Ireland	7,776	7,907	7,966	8,518	8,568	10,768	11,255	11,702	12,248	12,549	13,713
Italy	210,977	220,934	222,224	232,264	235,152	241,477	243,554	243,321	249,699	251,049	253,857
Netherlands	62,637	65,067	68,235	70,505	72,839	74,578	77,512	79,187	81,604	82,332	87,279
Poland	16,120	17,114	17,545	17,441	17,255	19,079	19,712	24,217	24,735	27,258	27,829
Portugal	12,300	12,938	14,193	15,053	17,083	17,939	19,995	20,783	21,108	21,036	21,377
Romania	2,144	1,813	2,207	2,126	2,270	2,501	2,196	3,927	3,849	5,147	4,523
Slovakia	1,965	2,002	2,098	2,151	2,285	2,251	1,986	2,160	2,155	2,463	3,150
Spain	74,777	79,251	84,042	88,972	95,772	102,373	105,285	108,868	107,854	108,485	111,923
Sweden	33,641	35,289	36,799	38,412	40,125	41,210	40,761	38,452	51,832	52,909	55,079
United Kingdom	228,958	245,969	267,134	292,655	297,506	305,800	300,065	293,004	309,409	328,889	341,554
Asia	599,675	638,535	683,705	745,605	812,913	855,907	909,160	967,461	1,025,285	1,076,981	1,139,598
China	55,924	60,978	70,606	78,530	89,193	91,786	95,519	104,961	116,228	136,421	146,992
India	22,823	24,556	26,308	29,360	31,529	34,202	35,740	39,146	40,094	44,162	46,639
Indonesia	8,510	9,053	9,495	8,782	9,829	11,105	12,049	13,191	13,913	15,247	17,232
Japan	450,381	476,979	500,995	540,621	581,694	606,030	642,358	669,128	697,612	707,043	739,518
Malaysia	4,742	4,672	4,765	5,228	5,506	5,939	6,276	7,180	8,570	9,201	10,225
Philippines	4,316	4,501	4,951	5,409	6,042	6,474	6,445	6,549	6,689	6,995	7,535
Singapore	7,905	8,031	8,964	9,700	10,847	14,293	15,574	16,935	19,567	21,834	23,068
South Korea	27,727	31,034	35,638	42,133	47,778	52,524	60,010	67,150	74,562	82,444	92,936
Taiwan	11,957	13,140	16,006	19,231	23,527	25,228	26,378	29,252	31,940	35,992	38,371
Thailand	5,391	5,589	5,977	6,610	6,969	8,326	8,812	13,970	16,111	17,643	17,082
All others	683,193	689,332	737,866	762,186	797,750	771,923	793,697	865,718	921,072	893,623	905,484
Argentina	32,276	35,277	35,948	34,072	28,171	33,986	40,058	45,627	47,878	52,764	52,799
Australia	60,164	62,934	71,285	75,818	78,041	80,028	79,472	83,658	86,633	90,115	93,232
Brazil	105,089	94,249	114,958	124,911	147,353	109,452	117,773	165,590	188,233	141,618	129,840
Canada	118,217	124,539	130,815	134,710	136,546	140,419	143,175	145,403	147,470	152,532	156,026
Chile	10,603	10,943	11,235	11,500	12,362	12,190	12,986	13,741	14,195	15,036	16,100
Costa Rica	1,343	1,291	1,456	1,531	1,660	1,783	2,228	2,347	2,601	2,832	2,939

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Egypt	12,589	12,642	14,675	15,782	15,606	12,732	7,346	12,139	15,756	18,702	20,805
Iran	4,856	4,370	3,981	4,046	3,960	4,610	4,982	5,160	4,783	5,831	6,440
Israel	12,520	12,562	15,293	16,437	16,739	17,670	18,023	19,428	20,381	21,697	31,728
Mexico	70,916	69,503	69,250	68,533	67,724	70,167	72,471	76,681	80,031	84,078	84,782
Morocco	3,699	3,739	3,906	3,970	3,985	4,093	4,317	4,580	4,613	4,665	4,777
Norway	22,780	24,251	25,369	25,759	25,204	24,999	25,551	27,022	27,874	28,890	29,224
Russia	43,928	45,533	48,027	52,499	56,277	57,737	52,105	43,421	48,109	43,151	39,086
Saudi Arabia	28,960	28,399	25,155	21,058	25,872	25,431	28,188	29,016	29,553	24,576	24,453
South Africa	23,117	24,196	24,778	23,980	23,462	23,546	23,790	24,308	24,438	24,401	26,127
Switzerland	44,705	43,211	44,209	47,821	53,257	52,770	53,766	55,278	58,548	58,868	59,126
Tunisia	1,235	1,276	1,411	1,450	1,441	1,496	1,531	1,687	1,750	1,828	1,913
Turkey	18,217	18,849	20,316	20,289	20,630	22,641	23,438	25,001	26,910	25,373	26,425
All others	67,981	71,568	75,801	78,019	79,457	76,174	82,499	85,631	91,316	96,665	99,662
All market-oriented knowledge-intensive services											
All regions/countries/economies	2,918,135	3,044,800	3,150,892	3,371,524	3,569,350	3,691,014	3,803,748	3,981,225	4,158,836	4,212,989	4,352,020
United States	1,377,571	1,427,809	1,415,253	1,497,104	1,568,024	1,638,230	1,630,543	1,664,736	1,712,592	1,741,620	1,793,142
EU	731,798	779,150	815,191	872,432	914,866	961,515	1,017,468	1,033,727	1,066,644	1,090,360	1,129,705
Austria	15,129	15,804	16,394	17,676	18,527	19,522	20,443	21,725	22,041	22,444	23,554
Belgium	23,287	24,131	24,998	26,737	27,855	29,571	30,499	31,607	32,027	33,372	35,258
Bulgaria	1,524	1,467	1,568	1,822	1,778	1,922	1,693	999	992	1,184	920
Czech Republic	2,262	2,278	2,054	2,070	2,269	5,128	4,953	4,322	5,023	5,021	6,204
Denmark	13,495	15,364	15,730	15,529	16,989	16,049	16,195	16,069	16,175	17,136	16,556
Finland	8,697	9,411	10,212	10,533	11,196	11,904	10,009	8,679	9,485	9,096	9,710
France	140,246	149,169	156,506	165,872	176,710	181,667	183,052	187,171	188,152	188,099	191,104
Germany	158,035	162,991	168,278	177,310	184,768	196,563	245,670	257,722	273,160	276,026	291,092
Greece	6,455	6,504	6,622	6,871	7,142	7,544	7,888	8,268	8,486	8,581	9,077
Hungary	2,985	3,178	3,565	4,036	4,262	4,286	4,740	5,285	5,732	6,489	6,068
Ireland	4,584	4,770	4,853	5,357	5,250	6,447	6,789	7,062	7,255	7,438	8,316
Italy	123,859	130,554	131,878	139,879	143,722	150,887	152,647	151,124	156,932	158,408	159,916
Netherlands	32,782	34,834	36,579	38,745	40,690	41,711	43,873	44,819	46,629	47,229	51,869
Poland	5,796	6,092	6,251	6,519	6,496	6,015	7,254	11,560	10,751	13,760	14,303
Portugal	5,251	5,349	6,206	6,746	8,233	8,731	9,947	10,154	10,628	9,670	10,704
Romania	1,750	1,456	1,782	1,709	1,726	1,857	1,475	2,809	2,824	3,746	3,004
Slovakia	1,465	1,476	1,531	1,560	1,614	1,588	1,422	1,249	1,231	1,432	2,027
Spain	44,863	48,207	51,068	54,563	58,779	63,436	64,450	64,236	62,425	61,618	63,095
Sweden	18,569	19,998	21,241	22,567	23,695	24,729	24,222	22,266	23,270	24,080	25,680
United Kingdom	120,763	136,118	147,874	166,330	173,164	181,961	180,248	176,602	183,426	195,529	201,247
Asia	432,835	464,595	503,053	557,794	611,247	647,217	692,271	736,288	784,954	819,774	867,837
China	33,140	37,183	44,955	51,626	54,796	56,995	58,714	65,233	72,964	86,365	93,621
India	10,730	11,754	13,034	14,938	16,573	18,492	19,675	22,428	25,130	28,548	29,961
Indonesia	5,111	5,538	5,835	5,428	6,287	7,202	8,026	8,849	9,243	10,552	12,003
Japan	343,931	366,656	388,308	425,138	462,987	486,169	520,160	544,626	570,071	574,445	599,462

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Malaysia	3,061	3,402	3,430	3,830	4,080	4,462	4,816	5,597	6,857	7,311	8,044
Philippines	2,642	2,873	3,273	3,657	4,175	4,629	4,561	4,565	4,614	4,872	5,318
Singapore.....	7,155	7,113	7,871	8,541	9,537	10,944	11,981	13,106	15,424	17,322	18,286
South Korea	14,191	16,172	19,657	24,415	27,844	30,822	36,215	41,542	46,925	51,826	59,424
Taiwan	10,035	10,934	13,178	15,983	19,722	20,863	21,023	23,362	25,444	29,093	30,600
Thailand.....	2,839	2,972	3,513	4,239	5,245	6,639	7,099	6,979	8,282	9,441	11,117
All others.....	375,931	373,246	417,395	444,193	475,213	444,052	463,467	546,475	594,646	561,236	561,337
Argentina	19,575	21,154	22,086	21,536	17,772	19,659	21,976	25,288	30,773	33,951	33,965
Australia.....	34,806	36,726	43,699	47,986	49,237	50,089	49,206	52,241	53,942	56,845	58,860
Brazil	61,677	49,640	73,871	82,416	105,122	68,484	73,180	136,009	157,542	107,378	90,270
Canada	55,537	60,735	65,696	68,621	69,812	72,087	72,420	72,844	74,697	79,835	83,413
Chile	2,306	2,472	2,691	2,981	3,427	3,564	4,294	4,901	5,315	5,820	6,545
Costa Rica.....	1,010	954	1,015	1,086	1,163	1,232	1,216	1,287	1,366	1,461	1,519
Egypt	3,585	3,445	3,613	3,849	4,124	4,916	5,244	7,943	9,623	11,345	12,416
Iran	3,156	2,881	2,625	2,699	2,703	3,155	3,466	4,431	4,170	4,171	4,666
Israel.....	8,931	8,129	9,572	10,578	10,822	11,499	12,153	13,088	10,975	11,867	20,094
Mexico	27,924	28,610	28,915	28,293	26,662	28,180	30,183	33,893	37,121	40,808	41,660
Morocco.....	1,131	1,142	1,235	1,334	1,348	1,490	1,623	1,821	1,831	1,836	1,934
Norway	10,353	11,430	11,907	12,135	11,452	10,828	10,921	11,865	12,391	13,034	13,212
Russia.....	26,697	27,787	29,766	33,096	35,873	36,812	38,158	31,738	34,886	29,764	27,178
Saudi Arabia.....	16,736	15,113	13,015	12,954	13,017	14,564	15,588	15,525	15,299	15,432	15,478
South Africa.....	15,860	16,897	17,376	16,751	16,952	17,065	17,300	17,809	17,793	17,462	18,705
Switzerland.....	31,987	28,987	29,545	34,037	40,776	36,614	38,167	40,458	44,952	44,837	44,402
Tunisia	439	445	509	503	516	554	579	643	688	735	787
Turkey.....	14,623	15,074	16,032	16,250	16,641	17,899	17,990	18,896	20,184	20,013	21,011
All others.....	39,598	41,626	44,228	47,089	47,794	45,361	49,802	55,796	61,099	64,644	65,222
Communication services											
All regions/countries/economies	337,595	356,385	362,968	381,030	402,870	427,585	446,133	467,530	496,347	512,341	545,748
United States.....	152,727	161,888	156,548	162,386	173,844	182,657	187,945	197,970	214,275	221,767	232,893
EU	77,705	81,094	85,011	89,774	94,307	101,121	108,808	113,630	119,799	120,475	126,744
Austria	2,872	3,008	3,192	3,406	3,473	3,588	3,824	4,023	4,203	4,416	4,292
Belgium	4,248	4,299	4,500	4,684	4,800	5,127	5,232	5,228	5,437	5,509	5,824
Bulgaria	99	88	135	144	151	150	205	208	212	216	182
Czech Republic	1,040	1,083	1,009	1,059	1,005	1,096	892	662	905	887	1,468
Denmark.....	1,524	1,631	1,972	1,950	1,920	2,120	2,104	2,449	2,448	2,606	2,480
Finland.....	1,116	1,157	1,269	1,354	1,453	1,554	1,597	1,639	1,613	1,645	1,774
France.....	10,884	11,496	12,084	13,095	14,286	15,231	16,249	16,608	19,151	16,238	17,063
Germany	14,798	15,250	15,928	16,890	17,681	18,860	23,679	25,137	26,061	26,991	28,311
Greece	1,380	1,369	1,362	1,472	1,540	1,570	1,580	1,669	1,751	1,779	1,959
Hungary	802	823	891	893	948	903	939	894	952	944	1,058
Ireland.....	743	715	799	880	941	1,227	1,260	1,295	1,343	1,476	1,595
Italy.....	9,594	10,075	10,526	10,666	10,698	11,365	12,249	13,691	14,810	14,934	15,156

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Netherlands.....	3,487	3,636	3,719	3,891	3,903	4,160	4,327	4,543	4,416	4,522	4,733
Poland.....	737	782	846	857	863	1,050	861	739	660	854	1,611
Portugal.....	730	765	829	957	1,084	1,273	1,459	1,566	1,819	1,949	2,162
Romania.....	421	375	427	419	462	393	253	507	670	908	811
Slovakia.....	193	196	158	164	172	167	200	207	217	302	456
Spain.....	7,251	7,253	7,308	7,708	8,478	9,379	10,150	11,041	11,256	11,620	11,529
Sweden.....	2,262	2,401	2,648	2,789	2,984	3,308	3,460	3,747	3,731	3,702	4,099
United Kingdom.....	13,525	14,693	15,407	16,497	17,467	18,599	18,287	17,777	18,143	18,978	20,181
Asia.....	38,008	41,860	45,253	48,314	51,118	53,451	57,417	61,052	64,515	69,491	79,186
China.....	1,903	2,210	2,743	3,573	3,885	3,977	4,966	5,782	7,323	9,498	12,797
India.....	1,387	1,415	1,511	1,683	1,740	1,816	1,891	2,082	2,338	2,667	3,126
Indonesia.....	1,450	1,508	1,595	1,510	1,675	1,834	1,988	2,138	2,180	2,533	2,871
Japan.....	28,111	30,787	32,772	34,074	35,136	35,968	37,357	38,723	38,911	38,999	42,527
Malaysia.....	553	547	590	657	719	773	898	946	1,059	1,263	1,422
Philippines.....	351	393	418	479	542	592	643	645	659	710	816
Singapore.....	1,580	1,732	1,881	2,099	2,315	2,532	2,712	2,848	3,146	3,444	3,811
South Korea.....	1,269	1,572	1,890	2,217	2,763	3,282	3,905	4,427	5,084	6,097	6,896
Taiwan.....	1,077	1,268	1,412	1,503	1,704	1,877	2,132	2,441	2,667	2,906	3,092
Thailand.....	329	429	442	520	639	799	925	1,021	1,150	1,373	1,828
All others.....	69,155	71,543	76,157	80,556	83,601	90,356	91,963	94,878	97,758	100,609	106,925
Argentina.....	2,217	2,222	2,251	2,533	2,055	2,417	2,681	2,868	3,984	4,609	4,819
Australia.....	3,373	3,466	3,882	4,014	4,324	4,553	4,937	5,403	6,116	6,750	7,571
Brazil.....	4,673	4,685	4,953	5,378	4,848	5,819	6,635	6,767	7,560	8,546	10,204
Canada.....	10,146	10,422	10,876	11,577	12,414	13,036	13,770	14,280	13,577	13,981	14,206
Chile.....	232	248	269	305	355	370	509	645	746	829	906
Costa Rica.....	346	333	362	394	432	462	325	363	403	437	471
Egypt.....	2,357	2,225	2,405	2,601	2,897	3,713	4,159	4,603	4,455	4,646	4,700
Iran.....	181	150	145	141	140	201	267	266	284	307	266
Israel.....	1,973	2,016	2,302	2,816	2,711	2,859	2,970	3,207	3,299	3,431	3,505
Mexico.....	1,512	1,394	1,430	1,472	1,864	2,402	2,785	3,459	3,974	4,495	4,887
Morocco.....	621	607	638	662	671	710	742	871	897	917	911
Norway.....	1,239	1,366	1,499	1,636	1,669	1,746	1,754	1,922	2,062	2,174	2,157
Russia.....	12,290	12,812	14,175	15,992	17,404	18,122	15,790	13,234	11,703	10,071	10,007
Saudi Arabia.....	2,658	2,978	2,760	2,838	2,872	3,339	3,573	3,558	3,491	3,512	3,532
South Africa.....	4,236	4,747	4,783	3,923	3,837	3,911	3,950	4,421	4,330	3,910	4,620
Switzerland.....	5,044	5,116	5,476	5,876	6,213	7,265	7,266	7,472	7,409	7,401	7,562
Tunisia.....	269	258	303	327	355	359	356	407	429	454	480
Turkey.....	7,058	7,085	7,781	7,869	8,102	9,067	9,028	9,782	10,824	10,644	11,253
All others.....	8,728	9,412	9,867	10,199	10,437	10,006	10,465	11,350	12,215	13,494	14,867
Financial services											
All regions/countries/economies.....	1,136,399	1,154,187	1,223,911	1,299,939	1,365,941	1,397,212	1,442,098	1,502,133	1,595,094	1,561,393	1,571,359
United States.....	537,378	516,002	514,691	532,087	539,687	559,588	573,986	570,487	585,388	575,386	590,385

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
EU.....	287,610	303,830	314,015	325,405	331,975	343,488	352,503	346,821	364,012	365,803	366,245
Austria.....	7,768	7,853	8,051	8,596	8,712	8,956	8,851	9,518	9,512	9,337	9,659
Belgium.....	7,625	7,936	8,417	8,999	9,273	9,775	9,976	10,255	9,992	10,385	10,977
Bulgaria.....	516	470	509	635	603	655	553	293	290	362	277
Czech Republic.....	552	532	467	449	560	1,795	1,729	1,507	1,543	1,476	1,049
Denmark.....	6,445	8,292	7,712	6,878	7,864	6,084	6,158	6,106	5,856	6,204	5,802
Finland.....	4,352	4,823	5,138	5,048	5,290	5,916	4,419	3,324	4,252	3,469	3,558
France.....	47,161	48,246	50,354	51,574	54,152	52,089	50,784	50,847	51,853	51,407	50,523
Germany.....	49,164	50,672	52,725	54,928	56,626	60,133	74,725	77,203	83,743	85,329	86,759
Greece.....	2,553	2,595	2,672	2,744	2,841	3,058	3,218	3,366	3,420	3,451	3,604
Hungary.....	1,015	1,092	1,248	1,457	1,531	1,570	1,752	1,821	1,976	2,622	2,024
Ireland.....	1,091	1,066	1,118	1,327	1,246	1,503	1,786	1,952	2,103	1,854	2,851
Italy.....	59,944	63,013	59,813	63,213	63,355	67,589	67,854	64,490	67,825	68,975	65,551
Netherlands.....	15,544	15,130	16,086	17,107	17,147	15,903	16,569	16,789	18,120	17,081	18,937
Poland.....	124	129	132	139	137	121	134	111	236	819	2,333
Portugal.....	2,379	2,391	2,981	3,182	3,964	4,195	4,468	3,885	4,074	3,405	3,839
Romania.....	542	440	549	519	509	588	587	820	824	837	849
Slovakia.....	511	512	551	559	576	570	492	417	395	420	736
Spain.....	24,687	26,420	28,399	30,721	33,308	36,274	35,593	33,535	30,656	28,878	29,160
Sweden.....	6,852	8,063	8,279	8,817	8,932	9,255	7,957	5,609	7,365	6,910	7,170
United Kingdom.....	48,784	54,157	58,815	58,512	55,352	57,458	54,899	54,974	59,978	62,581	60,587
Asia.....	173,795	202,069	238,995	274,354	309,623	332,309	347,830	352,684	381,680	400,025	416,024
China.....	21,261	24,694	30,988	35,552	41,442	42,433	41,359	44,735	48,240	55,564	60,576
India.....	4,038	4,742	5,704	6,654	7,659	9,204	9,617	11,911	11,635	14,238	15,269
Indonesia.....	1,638	1,800	1,903	1,766	2,207	2,622	2,985	3,298	3,482	3,978	4,510
Japan.....	126,738	148,912	173,351	196,469	217,750	233,807	246,539	239,788	257,404	258,132	260,773
Malaysia.....	1,022	1,092	1,132	1,343	1,394	1,525	1,584	1,806	2,204	2,323	2,533
Philippines.....	851	958	1,244	1,443	1,765	2,019	1,909	1,924	1,967	2,065	2,251
Singapore.....	2,793	2,687	3,120	3,194	3,651	4,334	4,654	5,271	6,967	7,830	7,778
South Korea.....	6,950	7,987	9,895	13,080	14,985	15,864	18,725	21,835	25,179	27,471	32,221
Taiwan.....	6,754	7,417	9,399	12,043	15,186	15,871	15,585	17,225	18,565	21,488	22,259
Thailand.....	1,750	1,779	2,261	2,810	3,585	4,628	4,873	4,891	6,036	6,936	7,855
All others.....	137,617	132,286	156,210	168,093	184,655	161,827	167,779	232,141	264,014	220,179	198,705
Argentina.....	3,926	4,291	4,536	4,334	3,600	3,959	4,408	5,101	6,080	7,317	7,299
Australia.....	11,439	12,363	16,846	18,813	18,395	19,549	19,164	19,330	19,609	20,379	21,228
Brazil.....	32,991	25,184	40,203	45,863	59,207	37,076	38,753	92,588	113,759	60,893	35,778
Canada.....	24,528	27,314	29,269	29,268	28,803	29,886	30,143	31,328	32,354	35,562	36,971
Chile.....	953	1,012	1,112	1,225	1,426	1,461	1,753	1,986	2,138	2,353	2,693
Costa Rica.....	371	345	362	382	403	424	489	502	522	556	567
Egypt.....	1,186	1,179	1,171	1,212	1,191	1,167	1,052	3,230	4,993	6,476	7,458
Iran.....	373	337	306	316	318	365	394	510	508	242	447
Israel.....	2,813	2,463	2,935	3,137	3,257	3,469	3,668	3,932	3,043	3,354	6,616

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Mexico	7,837	7,928	8,081	7,881	8,081	8,358	8,561	9,021	9,709	10,708	11,497
Morocco.....	208	205	238	285	281	323	357	369	355	353	391
Norway	3,816	4,372	4,760	4,678	4,307	4,097	4,080	4,704	4,743	4,955	4,754
Russia.....	1,993	2,084	2,199	2,412	2,593	2,625	2,786	4,454	5,302	4,870	3,206
Saudi Arabia.....	5,544	4,773	4,066	4,019	4,043	4,482	4,794	4,763	4,683	4,739	4,748
South Africa	4,636	4,840	5,018	5,096	5,186	5,182	5,260	5,259	5,269	5,348	5,564
Switzerland.....	17,980	15,930	16,089	18,779	23,022	19,562	20,611	21,945	24,914	24,141	23,616
Tunisia	67	73	82	70	65	78	89	95	104	113	123
Turkey.....	3,376	3,544	3,632	3,717	3,829	3,838	3,901	3,824	3,781	3,862	3,873
All others.....	13,579	14,049	15,304	16,606	16,650	15,926	17,516	19,201	22,147	23,959	21,875
Business services											
All regions/countries/economies	1,444,141	1,534,228	1,564,013	1,690,554	1,800,538	1,866,218	1,915,517	2,011,562	2,067,396	2,139,255	2,234,914
United States.....	687,466	749,919	744,015	802,631	854,493	895,985	868,611	896,279	912,929	944,467	969,863
EU	366,484	394,226	416,165	457,252	488,584	516,907	556,157	573,275	582,833	604,082	636,716
Austria	4,489	4,943	5,151	5,674	6,342	6,978	7,768	8,184	8,326	8,691	9,604
Belgium	11,415	11,896	12,081	13,054	13,782	14,668	15,291	16,123	16,598	17,479	18,458
Bulgaria	909	910	924	1,043	1,024	1,116	935	498	490	607	461
Czech Republic	670	663	579	562	705	2,238	2,332	2,153	2,575	2,658	3,687
Denmark.....	5,527	5,441	6,046	6,702	7,205	7,845	7,933	7,514	7,871	8,326	8,275
Finland.....	3,229	3,431	3,804	4,131	4,453	4,433	3,992	3,716	3,620	3,982	4,377
France.....	82,201	89,428	94,068	101,203	108,272	114,348	116,018	119,717	117,148	120,454	123,517
Germany	94,073	97,069	99,625	105,493	110,461	117,570	147,266	155,382	163,357	163,705	176,023
Greece.....	2,522	2,540	2,588	2,655	2,761	2,916	3,090	3,233	3,315	3,351	3,514
Hungary	1,168	1,263	1,426	1,685	1,783	1,813	2,049	2,570	2,804	2,924	2,986
Ireland.....	2,750	2,989	2,936	3,149	3,064	3,717	3,744	3,815	3,809	4,107	3,869
Italy.....	54,321	57,466	61,539	66,000	69,669	71,932	72,544	72,943	74,298	74,499	79,209
Netherlands.....	13,750	16,069	16,774	17,746	19,640	21,647	22,978	23,487	24,092	25,625	28,199
Poland.....	4,935	5,181	5,273	5,524	5,497	4,844	6,258	10,709	9,855	12,087	10,359
Portugal	2,142	2,193	2,396	2,607	3,185	3,262	4,020	4,702	4,734	4,316	4,702
Romania.....	788	642	806	770	755	875	635	1,482	1,330	2,000	1,344
Slovakia	761	768	822	838	866	851	730	625	618	710	835
Spain	12,925	14,533	15,361	16,134	16,994	17,782	18,708	19,659	20,514	21,120	22,407
Sweden.....	9,455	9,534	10,314	10,960	11,779	12,166	12,804	12,910	12,174	13,469	14,411
United Kingdom.....	58,454	67,268	73,652	91,322	100,345	105,903	107,062	103,851	105,305	113,970	120,479
Asia.....	221,031	220,666	218,805	235,126	250,505	261,457	287,024	322,552	338,760	350,258	372,628
China	9,976	10,279	11,225	12,501	9,469	10,585	12,388	14,716	17,401	21,303	20,248
India.....	5,306	5,597	5,820	6,600	7,174	7,472	8,167	8,435	11,158	11,643	11,566
Indonesia	2,023	2,230	2,337	2,152	2,405	2,746	3,053	3,414	3,581	4,041	4,622
Japan.....	189,083	186,956	182,185	194,595	210,100	216,394	236,265	266,115	273,757	277,314	296,162
Malaysia	1,486	1,763	1,707	1,831	1,968	2,164	2,334	2,845	3,594	3,725	4,090
Philippines	1,440	1,522	1,611	1,735	1,868	2,017	2,009	1,995	1,988	2,097	2,250
Singapore.....	2,782	2,694	2,871	3,248	3,571	4,077	4,615	4,987	5,311	6,048	6,697

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
South Korea	5,972	6,612	7,872	9,118	10,096	11,676	13,585	15,281	16,662	18,259	20,308
Taiwan	2,204	2,249	2,367	2,437	2,833	3,115	3,306	3,696	4,211	4,698	5,249
Thailand	760	763	810	909	1,021	1,211	1,301	1,067	1,097	1,131	1,434
All others	169,160	169,417	185,029	195,544	206,956	191,869	203,725	219,455	232,874	240,448	255,707
Argentina	13,432	14,641	15,299	14,669	12,118	13,283	14,887	17,319	20,709	22,025	21,847
Australia	19,994	20,897	22,970	25,158	26,518	25,988	25,105	27,508	28,218	29,716	30,060
Brazil	24,013	19,771	28,716	31,174	41,067	25,588	27,792	36,654	36,223	37,939	44,288
Canada	20,864	22,999	25,551	27,776	28,595	29,165	28,508	27,236	28,767	30,291	32,236
Chile	1,122	1,212	1,310	1,451	1,646	1,733	2,032	2,270	2,431	2,638	2,946
Costa Rica	292	276	290	309	329	347	401	421	440	468	481
Egypt	41	41	38	35	36	36	33	109	175	223	258
Iran	2,603	2,395	2,173	2,241	2,245	2,588	2,806	3,655	3,378	3,622	3,952
Israel	4,145	3,651	4,334	4,624	4,854	5,170	5,516	5,949	4,633	5,082	9,973
Mexico	18,574	19,287	19,404	18,940	16,717	17,421	18,836	21,412	23,438	25,605	25,275
Morocco	302	330	359	388	396	458	525	581	579	566	632
Norway	5,297	5,691	5,647	5,821	5,476	4,985	5,087	5,239	5,586	5,906	6,301
Russia	12,414	12,891	13,393	14,692	15,875	16,065	19,582	14,049	17,881	14,823	13,965
Saudi Arabia	8,534	7,362	6,189	6,097	6,102	6,743	7,221	7,205	7,124	7,181	7,198
South Africa	6,987	7,310	7,574	7,732	7,929	7,972	8,090	8,129	8,193	8,204	8,521
Switzerland	8,963	7,941	7,980	9,382	11,541	9,786	10,290	11,041	12,629	13,295	13,224
Tunisia	102	113	125	106	97	117	133	141	155	168	184
Turkey	4,189	4,445	4,619	4,665	4,710	4,994	5,061	5,291	5,579	5,508	5,885
All others	17,291	18,164	19,057	20,284	20,707	19,429	21,821	25,245	26,737	27,192	28,480
Non-market-oriented knowledge-intensive services											
All regions/countries/economies	1,818,337	1,850,755	1,925,874	1,945,466	2,000,027	2,044,256	2,111,796	2,157,292	2,218,270	2,266,825	2,324,059
United States	765,187	768,706	814,152	814,956	841,396	862,486	889,763	914,172	922,585	930,017	945,731
EU	579,048	592,024	610,600	624,706	634,427	645,208	674,913	692,703	728,928	747,213	762,420
Austria	14,804	14,918	15,081	15,065	15,178	15,533	15,855	16,120	16,540	16,776	17,133
Belgium	21,456	21,762	22,242	22,512	23,528	23,815	24,150	23,807	24,665	24,929	25,374
Bulgaria	1,847	1,894	2,013	2,152	1,964	1,163	1,670	1,916	2,313	2,002	753
Czech Republic	8,416	8,829	9,426	9,332	10,504	7,510	7,442	6,977	6,808	7,624	3,701
Denmark	16,524	16,483	16,717	17,509	17,491	17,008	17,368	17,377	18,023	18,533	18,972
Finland	11,574	11,877	12,316	12,527	12,828	13,108	13,119	12,926	12,114	11,979	12,232
France	105,802	107,555	107,475	107,724	110,468	114,192	116,860	121,321	125,810	126,832	129,098
Germany	96,279	98,314	100,979	102,506	105,033	110,419	136,834	146,105	150,354	156,088	161,455
Greece	7,893	7,976	8,089	8,165	8,611	8,651	8,692	9,039	9,451	9,622	10,096
Hungary	2,839	2,985	3,082	3,091	3,338	3,192	2,928	3,372	3,728	3,622	3,480
Ireland	3,192	3,137	3,113	3,162	3,318	4,321	4,466	4,640	4,993	5,111	5,398
Italy	87,118	90,380	90,346	92,385	91,430	90,590	90,906	92,197	92,767	92,642	93,941
Netherlands	29,855	30,232	31,656	31,760	32,148	32,868	33,638	34,368	34,975	35,103	35,410
Poland	10,324	11,023	11,294	10,921	10,759	13,064	12,458	12,657	13,984	13,498	13,526
Portugal	7,049	7,589	7,986	8,308	8,850	9,208	10,048	10,629	10,480	11,366	10,673

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Romania.....	393	357	425	417	544	645	721	1,118	1,025	1,402	1,519
Slovakia.....	501	526	567	591	671	663	564	911	925	1,031	1,124
Spain.....	29,914	31,045	32,974	34,410	36,993	38,937	40,835	44,633	45,429	46,867	48,827
Sweden.....	15,072	15,291	15,559	15,845	16,429	16,481	16,539	16,186	28,562	28,829	29,399
United Kingdom.....	108,195	109,852	119,260	126,325	124,342	123,839	119,817	116,403	125,984	133,360	140,307
Asia.....	166,840	173,939	180,652	187,811	201,666	208,690	216,889	231,174	240,330	257,207	271,762
China.....	22,784	23,795	25,651	26,904	34,396	34,791	36,805	39,728	43,264	50,056	53,371
India.....	12,093	12,802	13,273	14,422	14,956	15,710	16,065	16,717	14,963	15,614	16,678
Indonesia.....	3,399	3,515	3,660	3,354	3,542	3,903	4,023	4,342	4,669	4,695	5,228
Japan.....	106,450	110,323	112,687	115,483	118,707	119,862	122,198	124,502	127,540	132,597	140,056
Malaysia.....	1,680	1,270	1,335	1,398	1,426	1,477	1,460	1,582	1,713	1,890	2,181
Philippines.....	1,674	1,628	1,678	1,752	1,867	1,845	1,884	1,985	2,075	2,123	2,217
Singapore.....	750	919	1,093	1,159	1,310	3,350	3,592	3,829	4,143	4,512	4,781
South Korea.....	13,536	14,862	15,982	17,718	19,934	21,702	23,795	25,608	27,637	30,618	33,511
Taiwan.....	1,922	2,206	2,829	3,249	3,804	4,365	5,355	5,891	6,496	6,899	7,772
Thailand.....	2,552	2,618	2,465	2,372	1,724	1,687	1,712	6,990	7,829	8,203	5,966
All others.....	307,262	316,085	320,471	317,993	322,537	327,871	330,230	319,243	326,426	332,387	344,147
Argentina.....	12,702	14,123	13,862	12,536	10,399	14,327	18,082	20,339	17,105	18,813	18,834
Australia.....	25,357	26,208	27,586	27,832	28,804	29,939	30,266	31,417	32,691	33,271	34,372
Brazil.....	43,412	44,609	41,087	42,496	42,231	40,968	44,593	29,582	30,690	34,240	39,570
Canada.....	62,679	63,804	65,119	66,089	66,735	68,331	70,754	72,559	72,773	72,697	72,613
Chile.....	8,297	8,471	8,544	8,519	8,935	8,626	8,692	8,841	8,880	9,217	9,554
Costa Rica.....	333	337	441	445	497	551	1,012	1,061	1,235	1,371	1,421
Egypt.....	9,005	9,197	11,062	11,933	11,482	7,816	2,102	4,197	6,133	7,357	8,388
Iran.....	1,700	1,489	1,356	1,348	1,258	1,455	1,516	729	613	1,660	1,775
Israel.....	3,589	4,432	5,721	5,859	5,917	6,172	5,870	6,340	9,406	9,830	11,634
Mexico.....	42,992	40,894	40,335	40,240	41,062	41,986	42,288	42,789	42,909	43,271	43,123
Morocco.....	2,568	2,597	2,671	2,636	2,637	2,603	2,693	2,759	2,782	2,829	2,843
Norway.....	12,428	12,821	13,462	13,624	13,752	14,171	14,630	15,157	15,483	15,856	16,012
Russia.....	17,230	17,746	18,261	19,404	20,404	20,925	13,947	11,684	13,223	13,387	11,907
Saudi Arabia.....	12,223	13,286	12,140	8,104	12,855	10,867	12,599	13,490	14,254	9,144	8,975
South Africa.....	7,257	7,299	7,402	7,229	6,510	6,482	6,490	6,499	6,646	6,939	7,422
Switzerland.....	12,717	14,224	14,664	13,784	12,482	16,156	15,599	14,820	13,595	14,031	14,724
Tunisia.....	796	831	902	947	925	942	952	1,044	1,061	1,094	1,126
Turkey.....	3,593	3,775	4,284	4,038	3,989	4,742	5,447	6,104	6,726	5,360	5,414
All others.....	28,383	29,942	31,572	30,930	31,664	30,813	32,697	29,834	30,218	32,021	34,440
Education											
All regions/countries/economies.....	827,285	841,897	873,164	885,009	906,598	907,489	941,113	969,751	1,004,163	1,032,682	1,063,316
United States.....	339,175	339,175	357,272	356,677	364,418	365,609	381,686	393,595	404,909	413,841	425,154
EU.....	278,391	285,307	291,534	297,407	300,677	304,161	318,737	326,285	338,006	344,388	349,100
Austria.....	8,407	8,480	8,559	8,476	8,425	8,503	8,539	8,575	8,678	8,685	8,709
Belgium.....	11,922	11,975	11,730	11,619	12,089	12,213	12,298	12,392	12,698	12,739	12,847

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Bulgaria	1,158	1,188	1,267	1,363	1,251	744	1,065	1,240	1,345	1,092	478
Czech Republic	4,258	4,486	4,812	4,770	5,409	3,899	3,898	3,165	3,588	3,811	1,443
Denmark.....	5,681	5,760	5,811	5,984	5,911	5,727	5,923	5,934	6,373	6,685	6,467
Finland.....	4,311	4,408	4,561	4,620	4,681	4,723	4,713	4,673	4,545	4,449	4,527
France.....	52,864	52,348	51,269	49,888	50,121	50,974	51,830	54,078	54,546	54,397	57,415
Germany.....	40,843	42,320	43,935	45,677	47,480	50,673	63,444	66,363	67,716	68,709	69,665
Greece.....	3,788	3,829	3,904	3,957	4,188	4,216	4,236	4,413	4,629	4,724	4,944
Hungary.....	1,380	1,451	1,513	1,550	1,696	1,631	1,497	1,727	1,896	1,868	1,804
Ireland.....	1,451	1,446	1,450	1,506	1,602	2,116	2,162	2,330	2,489	2,557	2,593
Italy.....	50,330	53,232	52,294	53,679	53,058	52,672	52,367	52,685	52,468	51,565	51,774
Netherlands.....	10,820	10,926	11,866	11,989	12,015	12,172	12,444	12,743	12,941	13,059	12,976
Poland.....	4,559	4,857	4,997	4,822	4,777	5,851	5,712	5,800	6,391	6,600	6,477
Portugal.....	3,675	4,038	4,203	4,374	4,882	4,980	5,668	5,944	5,772	6,332	6,015
Romania.....	236	214	256	252	330	393	429	700	641	878	957
Slovakia.....	274	288	312	325	370	369	314	508	517	523	492
Spain.....	13,794	14,315	15,037	15,655	16,515	17,331	18,057	19,628	20,257	20,871	21,628
Sweden.....	5,253	5,364	5,467	5,563	5,759	5,787	5,810	5,695	10,077	10,044	10,692
United Kingdom.....	53,385	54,381	58,289	61,336	60,117	59,187	58,332	57,692	60,440	64,798	67,195
Asia.....	61,084	64,484	68,570	73,294	83,011	77,934	83,723	96,331	103,457	113,810	122,234
China.....	11,432	12,254	12,883	13,474	17,604	17,810	18,493	19,860	22,567	26,424	28,701
India.....	4,857	5,220	5,473	6,096	6,417	6,847	7,077	7,452	6,731	7,043	7,536
Indonesia.....	1,466	1,529	1,590	1,465	1,553	1,711	1,764	1,906	2,048	2,065	2,304
Japan.....	28,982	30,220	32,400	34,873	38,709	30,801	33,986	40,684	43,620	47,382	51,467
Malaysia.....	675	518	550	591	612	644	643	705	770	852	985
Philippines.....	1,148	1,133	1,111	1,166	1,222	1,201	1,207	1,264	1,312	1,345	1,401
Singapore.....	324	398	473	502	570	1,458	1,573	1,687	1,824	1,981	2,104
South Korea.....	10,161	11,038	11,741	12,663	13,949	14,962	16,176	17,341	18,515	20,274	21,979
Taiwan.....	916	1,019	1,253	1,406	1,602	1,741	2,028	2,262	2,490	2,744	3,055
Thailand.....	1,123	1,157	1,095	1,058	772	759	775	3,169	3,581	3,699	2,701
All others.....	148,636	152,932	155,788	157,632	158,492	159,784	156,968	153,540	157,792	160,644	166,828
Argentina.....	7,060	7,850	7,736	7,001	5,804	8,012	10,125	11,364	9,588	10,569	10,621
Australia.....	12,072	12,592	13,171	13,093	13,346	14,010	13,761	14,635	15,348	15,285	15,534
Brazil.....	17,435	18,189	16,941	17,963	16,796	17,856	19,646	13,186	13,805	15,444	17,881
Canada.....	30,014	30,374	30,202	30,109	29,984	30,180	31,248	31,834	31,850	31,691	31,826
Chile.....	4,058	4,158	4,196	4,180	4,380	4,229	4,243	4,322	4,334	4,489	4,661
Costa Rica.....	144	145	190	192	214	241	448	473	556	618	642
Egypt.....	8,793	8,982	10,803	11,665	11,231	7,650	2,058	4,111	6,010	7,210	8,221
Iran.....	279	247	227	226	210	245	257	124	128	511	581
Israel.....	2,041	2,520	3,256	3,347	3,390	3,551	3,391	3,681	5,499	5,758	6,824
Mexico.....	25,190	24,084	23,852	26,120	26,385	26,874	26,866	27,249	27,293	27,587	27,708
Morocco.....	1,031	1,059	1,101	1,114	1,131	1,134	1,187	1,230	1,252	1,276	1,285
Norway.....	4,865	5,068	5,292	5,279	5,370	5,433	5,475	5,627	5,603	5,715	5,692

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Russia.....	9,674	9,989	10,317	10,981	11,580	11,917	7,912	6,678	7,426	7,534	6,701
Saudi Arabia.....	5,253	5,757	5,262	3,539	5,637	4,793	5,559	5,957	6,352	4,086	4,018
South Africa.....	3,150	3,184	3,249	3,183	2,877	2,882	2,887	2,897	2,973	3,113	3,336
Switzerland.....	1,490	1,704	1,787	1,743	1,615	2,141	2,102	2,034	1,892	1,714	1,777
Tunisia.....	348	365	396	415	407	417	423	465	475	490	506
Turkey.....	1,607	1,686	1,913	1,809	1,788	2,122	2,436	2,733	3,023	2,416	2,433
All others.....	14,132	14,978	15,897	15,671	16,347	16,097	16,943	14,941	14,386	15,139	16,583
Health											
All regions/countries/economies.....	991,052	1,008,858	1,052,710	1,060,457	1,093,429	1,136,767	1,170,683	1,187,540	1,214,107	1,234,142	1,260,743
United States.....	426,012	429,532	456,879	458,279	476,979	496,878	508,077	520,577	517,677	516,177	520,577
EU.....	300,658	306,717	319,066	327,298	333,750	341,046	356,176	366,418	390,923	402,826	413,319
Austria.....	6,397	6,438	6,522	6,589	6,753	7,030	7,317	7,545	7,862	8,091	8,425
Belgium.....	9,534	9,786	10,512	10,893	11,439	11,602	11,852	11,415	11,967	12,189	12,527
Bulgaria.....	689	707	746	789	713	420	605	676	968	910	275
Czech Republic.....	4,159	4,344	4,614	4,563	5,094	3,611	3,544	3,813	3,220	3,813	2,258
Denmark.....	10,843	10,723	10,906	11,525	11,579	11,281	11,445	11,443	11,649	11,848	12,505
Finland.....	7,263	7,469	7,755	7,906	8,147	8,385	8,407	8,253	7,569	7,530	7,705
France.....	52,938	55,207	56,206	57,836	60,347	63,218	65,030	67,243	71,263	72,435	71,683
Germany.....	55,435	55,994	57,044	56,829	57,553	59,746	73,390	79,743	82,638	87,378	91,790
Greece.....	4,105	4,147	4,185	4,208	4,423	4,435	4,456	4,625	4,822	4,897	5,152
Hungary.....	1,458	1,534	1,569	1,540	1,642	1,561	1,431	1,645	1,833	1,754	1,676
Ireland.....	1,741	1,691	1,663	1,656	1,716	2,204	2,304	2,310	2,504	2,554	2,804
Italy.....	36,788	37,147	38,052	38,706	38,372	37,919	38,539	39,512	40,299	41,077	42,167
Netherlands.....	19,035	19,306	19,791	19,771	20,134	20,696	21,194	21,625	22,035	22,044	22,435
Poland.....	5,765	6,166	6,297	6,099	5,982	7,213	6,746	6,857	7,593	6,898	7,049
Portugal.....	3,374	3,551	3,783	3,934	3,968	4,228	4,380	4,685	4,708	5,034	4,658
Romania.....	157	142	168	165	214	252	292	418	384	524	562
Slovakia.....	227	238	255	266	301	295	250	404	408	508	631
Spain.....	16,120	16,729	17,937	18,755	20,479	21,606	22,779	25,004	25,172	25,996	27,199
Sweden.....	9,818	9,927	10,092	10,282	10,670	10,694	10,730	10,491	18,486	18,785	18,708
United Kingdom.....	54,810	55,471	60,971	64,989	64,225	64,652	61,484	58,710	65,544	68,562	73,112
Asia.....	105,757	109,455	112,082	114,518	118,655	130,756	133,167	134,842	136,873	143,397	149,527
China.....	11,352	11,542	12,768	13,430	16,792	16,980	18,313	19,868	20,698	23,632	24,669
India.....	7,236	7,582	7,800	8,326	8,539	8,863	8,987	9,265	8,232	8,571	9,142
Indonesia.....	1,933	1,986	2,070	1,889	1,989	2,192	2,260	2,436	2,621	2,630	2,924
Japan.....	77,468	80,104	80,287	80,610	79,998	89,061	88,212	83,817	83,920	85,215	88,590
Malaysia.....	1,006	752	785	807	814	833	817	877	942	1,037	1,195
Philippines.....	526	495	567	586	645	644	677	721	763	779	816
Singapore.....	426	521	619	657	740	1,892	2,020	2,142	2,320	2,531	2,678
South Korea.....	3,375	3,824	4,241	5,055	5,984	6,740	7,618	8,267	9,122	10,344	11,533
Taiwan.....	1,006	1,187	1,576	1,843	2,202	2,625	3,327	3,628	4,006	4,155	4,717
Thailand.....	1,429	1,461	1,370	1,314	952	927	937	3,822	4,248	4,503	3,264

Appendix table 6-4

(Page 11 of 11)

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
All others.....	158,626	163,154	164,683	160,361	164,044	168,087	173,263	165,703	168,634	171,743	177,320
Argentina.....	5,642	6,273	6,126	5,536	4,595	6,315	7,956	8,975	7,517	8,243	8,214
Australia.....	13,285	13,615	14,415	14,739	15,458	15,928	16,505	16,782	17,344	17,986	18,838
Brazil.....	25,977	26,419	24,146	24,533	25,435	23,112	24,947	16,395	16,885	18,796	21,689
Canada.....	32,665	33,430	34,917	35,980	36,751	38,151	39,506	40,725	40,922	41,007	40,787
Chile.....	4,238	4,313	4,348	4,338	4,555	4,397	4,449	4,519	4,546	4,728	4,894
Costa Rica.....	189	192	251	253	283	310	564	588	680	753	779
Egypt.....	211	216	259	268	251	166	44	86	123	147	167
Iran.....	1,421	1,242	1,129	1,121	1,047	1,210	1,259	605	485	1,149	1,193
Israel.....	1,548	1,912	2,466	2,512	2,527	2,621	2,478	2,659	3,908	4,072	4,810
Mexico.....	17,802	16,810	16,482	14,120	14,677	15,112	15,422	15,540	15,616	15,684	15,415
Morocco.....	1,537	1,538	1,570	1,522	1,505	1,468	1,507	1,529	1,531	1,553	1,558
Norway.....	7,563	7,753	8,170	8,345	8,382	8,738	9,155	9,530	9,880	10,141	10,319
Russia.....	7,557	7,757	7,944	8,422	8,825	9,008	6,035	5,005	5,798	5,853	5,206
Saudi Arabia.....	6,971	7,530	6,879	4,565	7,218	6,074	7,041	7,533	7,902	5,058	4,957
South Africa.....	4,107	4,116	4,153	4,046	3,633	3,599	3,602	3,602	3,673	3,826	4,087
Switzerland.....	11,227	12,519	12,877	12,041	10,867	14,015	13,498	12,786	11,703	12,318	12,948
Tunisia.....	448	466	506	532	518	525	529	579	587	603	620
Turkey.....	1,987	2,089	2,370	2,229	2,201	2,621	3,011	3,371	3,704	2,944	2,981
All others.....	14,250	14,964	15,675	15,259	15,317	14,716	15,754	14,893	15,831	16,882	17,857

EU = European Union

NOTES: Knowledge-intensive services classified by Organisation for Economic Co-operation and Development and include business, financial, communications, education, and health services. Market-oriented knowledge-intensive services exclude education and health services. Non-market-oriented knowledge-intensive services include education and health. Value-added revenue excludes purchases of domestic and imported supplies and inputs. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Science and Engineering Indicators 2008

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All knowledge-intensive services										
All regions/countries/economies	6,940,902	7,252,390	7,554,559	7,858,553	8,266,030	8,556,983	8,747,624	9,038,823	9,390,869	9,773,236
United States	2,823,741	2,930,295	3,054,759	3,210,672	3,354,725	3,419,955	3,476,556	3,596,674	3,752,046	3,907,680
EU	1,953,368	2,017,490	2,090,577	2,170,926	2,252,215	2,331,892	2,403,544	2,449,421	2,487,369	2,540,813
Austria	42,639	42,023	43,166	43,994	44,656	45,289	45,448	45,977	47,043	48,761
Belgium	62,148	63,894	65,030	68,470	69,718	71,771	72,922	74,835	77,850	78,391
Bulgaria	2,688	2,092	2,514	2,747	2,738	3,008	3,349	3,515	3,582	3,655
Czech Republic	10,132	9,694	10,400	11,096	11,954	12,317	12,544	12,968	12,957	13,075
Denmark	36,653	38,429	40,074	41,114	42,048	42,889	43,915	44,736	46,401	48,147
Finland	23,177	24,268	25,785	26,811	27,563	28,718	29,213	29,636	31,732	32,330
France	329,413	339,352	351,525	368,650	384,998	400,071	409,854	417,149	425,312	432,453
Germany	473,189	485,677	499,192	520,242	526,039	541,833	561,988	561,559	560,119	563,706
Greece	18,869	20,590	21,169	21,901	22,425	23,304	24,475	26,528	28,664	30,500
Hungary	10,098	10,031	10,372	10,492	10,197	10,756	11,307	11,617	11,925	11,645
Ireland	15,003	16,474	16,901	19,291	22,048	23,946	25,566	25,025	27,657	29,527
Italy	260,069	262,398	264,580	271,913	286,076	295,107	301,610	307,017	309,318	315,592
Netherlands	91,533	96,365	100,973	106,503	110,438	111,924	115,214	119,049	123,914	124,885
Poland	27,342	28,305	28,850	28,129	28,971	29,250	28,863	31,051	31,085	30,684
Portugal	21,839	22,768	24,216	25,861	26,848	28,025	28,533	29,372	30,614	30,877
Romania	4,795	4,572	5,074	4,972	5,038	5,619	6,137	6,084	6,469	6,622
Slovakia	3,004	3,845	3,837	3,838	3,692	3,759	4,069	4,206	4,457	4,530
Spain	111,858	117,043	121,680	123,010	126,535	134,421	137,475	141,162	147,292	152,840
Sweden	56,529	57,647	59,697	63,404	66,986	69,112	69,729	71,151	74,795	76,673
United Kingdom	352,391	372,025	395,541	408,485	433,247	450,774	471,333	486,785	486,182	505,920
Asia	1,226,902	1,321,377	1,382,534	1,427,661	1,575,727	1,695,109	1,739,725	1,841,571	1,944,358	2,024,060
China	164,775	184,781	193,994	218,169	252,871	282,538	309,875	363,252	405,487	449,410
India	51,094	53,994	60,469	71,524	76,882	83,104	87,648	95,786	105,283	113,843
Indonesia	17,646	18,371	15,153	14,532	19,708	20,866	21,932	24,143	26,639	28,706
Japan	787,978	839,799	890,850	895,789	994,641	1,063,743	1,052,472	1,080,769	1,117,883	1,128,539
Malaysia	11,808	13,525	13,367	13,886	14,687	16,402	17,846	18,982	20,361	22,536
Philippines	8,500	9,567	10,359	10,788	11,099	11,580	13,000	14,297	16,207	17,911
Singapore	25,816	29,568	29,230	30,316	32,193	33,396	33,098	33,781	35,522	36,670
South Korea	97,980	103,748	100,072	101,275	99,239	107,054	123,274	127,079	129,207	136,185
Taiwan	43,365	50,773	54,291	57,486	60,511	62,239	65,317	67,528	70,573	72,102
Thailand	17,939	17,251	14,749	13,896	13,895	14,186	15,261	15,953	17,196	18,158
All others	936,892	983,228	1,026,688	1,049,295	1,083,363	1,110,027	1,127,800	1,151,157	1,207,095	1,300,683
Argentina	56,691	62,323	67,600	67,909	68,991	66,439	53,862	52,492	54,072	61,118
Australia	97,541	102,212	109,719	115,915	119,287	122,635	126,476	132,349	136,218	140,814
Brazil	141,879	145,995	145,428	138,198	135,058	137,417	142,800	137,357	132,127	158,755
Canada	156,934	161,570	169,444	175,673	185,112	191,325	197,472	206,837	217,993	225,883
Chile	16,389	17,139	17,908	18,585	19,274	19,813	20,509	20,885	21,976	22,976
Costa Rica	3,047	3,232	3,477	3,548	3,913	4,159	4,408	4,772	4,965	5,188

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Egypt	22,550	21,976	22,525	23,252	24,591	26,084	25,121	24,587	29,887	31,520
Iran	6,742	7,605	9,849	9,652	9,898	11,239	12,201	13,721	18,049	17,959
Israel	31,751	33,830	36,684	38,462	41,297	41,642	40,987	41,120	44,115	45,780
Mexico	84,493	86,544	91,741	98,129	103,123	107,015	108,607	107,249	110,083	115,980
Morocco	4,709	4,785	4,947	5,132	5,340	5,460	5,633	5,896	5,542	6,851
Norway	30,353	32,019	33,107	34,983	35,576	36,871	37,358	38,649	40,175	41,685
Russia	36,598	39,078	37,102	37,590	40,187	42,961	47,146	48,984	53,488	56,566
Saudi Arabia	24,162	25,213	25,427	26,575	27,728	28,927	30,372	31,342	32,808	35,274
South Africa	27,804	28,854	28,893	29,664	29,762	31,017	29,768	31,582	35,619	41,065
Switzerland	61,682	64,424	68,520	68,569	74,033	72,986	77,039	78,611	82,203	83,915
Tunisia	2,203	2,348	2,451	2,610	2,790	2,807	2,941	3,250	3,544	4,257
Turkey	28,334	30,518	34,133	34,925	35,152	31,447	34,254	38,731	38,426	43,201
All others	103,031	113,562	117,735	119,923	122,250	129,783	130,846	132,743	145,805	161,895
All market-oriented knowledge-intensive services										
All regions/countries/economies	4,578,428	4,825,304	5,062,603	5,318,184	5,606,136	5,826,917	5,975,359	6,193,125	6,495,046	6,773,932
United States	1,872,224	1,971,242	2,079,220	2,218,801	2,336,950	2,383,776	2,404,373	2,482,220	2,605,684	2,728,392
EU	1,178,078	1,227,116	1,285,221	1,354,812	1,424,477	1,487,497	1,539,274	1,580,124	1,626,791	1,672,545
Austria	25,178	24,857	25,632	26,339	27,029	27,600	28,154	28,820	29,916	31,385
Belgium	36,608	38,260	39,821	41,955	42,734	43,874	44,681	46,031	48,505	49,311
Bulgaria	2,279	1,691	1,909	2,105	1,991	2,239	2,502	2,638	2,727	2,798
Czech Republic	6,278	6,110	7,227	7,646	8,144	8,897	8,767	8,964	9,102	9,577
Denmark	17,063	18,475	19,373	20,272	20,722	21,524	22,254	22,793	23,977	25,309
Finland	10,542	11,286	12,521	13,400	14,286	14,856	14,921	15,227	16,821	17,149
France	199,828	206,908	216,410	231,359	248,051	257,875	266,946	272,488	279,338	286,448
Germany	304,727	314,885	325,515	343,152	347,012	359,491	370,694	370,846	369,227	374,304
Greece	9,184	10,019	10,735	11,769	12,353	13,334	13,266	14,363	15,687	16,670
Hungary	6,589	6,296	6,573	6,662	6,418	6,869	7,382	7,502	7,853	7,755
Ireland	9,255	10,496	10,995	12,260	14,267	15,662	16,533	16,254	18,529	20,075
Italy	163,831	164,876	168,586	175,378	188,869	196,313	200,482	204,833	206,023	210,051
Netherlands	55,581	59,609	63,167	67,972	71,399	72,636	73,416	75,223	79,087	80,439
Poland	14,406	14,709	15,196	15,582	16,398	17,160	16,972	18,789	19,491	18,978
Portugal	10,913	11,797	12,799	14,167	14,845	15,713	16,130	16,756	17,734	18,019
Romania	3,332	3,369	3,514	3,510	3,491	4,156	4,500	4,157	5,099	4,848
Slovakia	1,902	2,515	2,459	2,403	2,313	2,351	2,577	2,640	2,921	3,004
Spain	62,932	66,939	70,028	69,870	72,902	79,900	80,894	82,859	87,346	91,260
Sweden	26,807	28,174	29,390	32,077	35,146	36,524	36,326	37,144	39,634	41,238
United Kingdom	210,842	225,845	243,371	256,936	276,105	290,523	311,878	331,796	347,773	363,925
Asia	940,527	1,006,723	1,045,457	1,072,792	1,143,541	1,231,943	1,283,959	1,363,333	1,444,238	1,506,100
China	105,762	120,934	127,948	142,918	171,954	196,053	218,835	259,245	294,045	331,180
India	32,925	34,629	39,030	45,981	49,718	53,519	56,561	63,246	70,436	77,005
Indonesia	12,341	13,632	10,791	9,817	13,565	14,594	15,729	17,121	18,975	20,995
Japan	644,222	677,061	709,190	711,684	742,104	790,964	796,938	819,662	848,246	855,379

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Malaysia	9,380	11,031	11,006	11,499	12,261	13,712	15,444	16,576	17,900	18,695
Philippines	6,184	7,119	7,698	7,936	8,015	8,292	9,411	10,358	11,726	13,249
Singapore.....	20,493	23,674	23,075	23,850	25,156	25,825	26,192	26,732	28,225	29,322
South Korea	63,185	67,081	65,100	65,941	65,395	72,037	84,828	87,584	88,263	92,278
Taiwan	34,224	40,464	42,803	45,721	48,018	49,256	51,687	53,674	56,350	57,360
Thailand.....	11,811	11,100	8,815	7,445	7,356	7,690	8,335	9,135	10,071	10,637
All others.....	587,599	620,223	652,706	671,780	701,167	723,701	747,753	767,448	818,333	866,896
Argentina	36,538	40,134	44,320	44,589	44,992	43,403	36,469	35,234	36,907	41,371
Australia.....	61,890	65,849	72,250	77,456	79,810	81,364	85,195	89,092	91,541	94,652
Brazil	100,652	104,683	105,662	98,593	95,335	99,381	106,127	101,943	104,106	108,854
Canada	85,940	92,690	98,942	104,573	113,050	119,138	123,618	130,803	139,524	145,515
Chile	9,447	10,136	10,908	11,108	11,522	11,979	12,497	12,844	13,573	14,316
Costa Rica.....	1,566	1,683	1,779	1,802	2,010	2,153	2,349	2,616	2,854	3,038
Egypt	12,994	12,707	13,637	14,779	16,343	17,359	16,198	15,883	19,778	21,505
Iran	4,999	5,627	6,152	6,643	7,010	7,881	9,498	10,862	11,562	11,723
Israel.....	19,522	20,715	23,478	24,975	27,345	27,477	27,414	27,825	30,193	31,547
Mexico	41,156	42,151	45,812	50,613	55,694	59,280	60,769	60,476	63,833	68,107
Morocco.....	1,814	1,838	1,975	2,115	2,343	2,413	2,538	2,704	2,865	2,946
Norway	13,807	15,014	15,743	17,211	17,580	18,391	18,361	19,332	20,496	21,427
Russia.....	24,020	25,547	24,328	26,896	28,627	30,178	32,350	33,784	37,372	39,657
Saudi Arabia.....	16,335	16,764	16,533	17,426	18,174	19,054	20,120	20,789	21,899	23,689
South Africa.....	20,024	21,089	20,877	21,628	21,717	23,162	24,456	25,723	28,135	29,838
Switzerland.....	46,608	49,399	53,378	53,804	59,183	57,713	61,415	63,148	66,607	68,331
Tunisia	939	1,023	1,091	1,205	1,315	1,424	1,495	1,668	1,838	2,069
Turkey.....	22,182	23,481	24,787	24,578	26,516	25,002	25,992	27,885	30,600	33,670
All others.....	67,165	69,692	71,054	71,786	72,600	76,948	80,891	84,838	94,649	104,640
Communication services										
All regions/countries/economies	586,681	619,256	674,299	754,555	823,081	892,818	936,915	970,462	1,047,579	1,112,409
United States.....	247,215	246,554	271,783	309,129	334,688	353,637	360,908	364,103	402,882	430,093
EU	133,164	142,896	155,031	177,238	190,239	209,238	227,134	231,491	240,014	247,498
Austria	4,827	4,375	4,111	4,027	3,421	3,968	4,053	4,243	4,397	4,768
Belgium	5,413	4,944	5,230	5,423	5,285	5,363	5,756	6,105	6,446	6,592
Bulgaria	198	229	284	430	499	647	814	883	954	983
Czech Republic	1,444	1,696	1,680	2,054	2,631	2,929	3,188	3,368	3,274	3,322
Denmark.....	2,998	3,033	2,957	3,181	2,996	3,137	3,290	3,548	3,748	4,213
Finland.....	1,965	2,226	2,628	3,011	3,431	3,742	3,950	4,017	4,331	3,990
France.....	17,711	18,777	20,733	24,078	25,627	28,636	33,851	34,103	36,233	37,353
Germany	29,350	31,279	33,070	40,748	40,339	48,166	56,809	56,941	58,337	58,889
Greece	1,582	2,019	2,139	2,819	3,244	3,400	3,385	3,441	4,087	4,322
Hungary	1,199	1,393	1,576	1,617	1,518	1,618	1,690	1,720	1,719	1,800
Ireland.....	1,778	1,921	1,909	2,087	2,447	2,555	2,503	2,388	2,509	2,636
Italy.....	16,643	16,980	18,279	21,184	22,792	24,593	24,661	25,079	26,301	28,609

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Netherlands.....	4,807	5,521	6,514	7,130	8,720	9,019	10,075	10,432	10,807	10,464
Poland.....	1,778	2,007	2,239	2,600	2,872	3,234	3,413	3,637	3,765	3,822
Portugal.....	2,300	2,379	2,434	2,680	2,715	2,963	3,065	3,098	3,229	3,295
Romania.....	1,003	1,076	1,195	1,187	1,184	1,266	1,282	1,278	1,359	767
Slovakia.....	566	778	722	545	534	559	522	455	468	464
Spain.....	12,135	13,657	14,152	13,551	13,242	14,479	15,049	15,535	16,048	16,817
Sweden.....	4,248	4,558	4,874	5,080	5,559	5,555	5,879	6,070	6,198	6,642
United Kingdom.....	21,220	24,049	28,303	33,806	41,185	43,409	43,901	45,152	45,804	47,750
Asia.....	95,146	111,770	121,913	135,875	158,201	184,566	197,841	214,250	234,327	251,349
China.....	15,764	19,710	21,640	25,320	34,730	41,757	48,188	58,445	68,793	80,372
India.....	3,669	3,994	4,786	6,077	7,071	9,062	10,725	13,382	17,043	19,819
Indonesia.....	3,143	3,634	3,546	3,500	4,034	4,452	4,986	5,725	6,741	7,969
Japan.....	52,079	61,679	68,063	74,103	81,690	92,676	93,626	94,750	96,850	96,865
Malaysia.....	1,638	1,963	2,091	2,032	2,469	2,848	2,942	3,229	3,512	3,677
Philippines.....	938	1,098	1,351	1,525	1,759	2,178	2,722	3,099	3,633	4,118
Singapore.....	4,123	4,461	4,785	5,193	5,582	5,749	6,111	6,081	6,627	5,982
South Korea.....	8,092	9,101	8,742	9,699	10,810	14,915	17,012	17,446	18,470	19,406
Taiwan.....	3,572	3,911	4,897	6,283	7,754	8,477	8,936	9,422	9,784	10,127
Thailand.....	2,127	2,219	2,012	2,142	2,302	2,453	2,592	2,673	2,874	3,014
All others.....	111,155	118,037	125,573	132,314	139,954	145,376	151,032	160,618	170,357	183,469
Argentina.....	5,340	6,458	7,781	8,017	7,793	7,759	5,784	6,048	7,237	8,834
Australia.....	8,178	9,074	9,992	10,958	11,152	11,080	11,850	12,997	12,908	13,016
Brazil.....	10,486	11,391	12,598	12,682	14,659	14,669	15,040	17,241	16,884	18,385
Canada.....	14,344	14,414	14,843	16,900	18,197	19,417	20,798	21,303	21,942	23,283
Chile.....	931	1,064	1,311	1,516	1,458	1,583	1,773	1,767	1,861	2,197
Costa Rica.....	495	551	585	572	637	667	778	902	1,010	1,112
Egypt.....	4,086	4,012	4,029	4,208	4,524	4,761	5,173	5,259	5,349	6,052
Iran.....	279	377	388	340	661	715	773	893	998	1,103
Israel.....	3,617	3,835	4,086	4,173	4,195	4,172	4,152	4,418	4,850	5,147
Mexico.....	5,566	6,064	6,815	7,828	8,797	9,895	10,377	11,318	12,456	13,514
Morocco.....	917	936	1,022	1,103	1,222	1,244	1,300	1,341	1,408	1,447
Norway.....	2,159	2,518	2,722	3,058	2,574	2,854	3,335	3,433	3,472	3,405
Russia.....	9,580	9,376	9,090	10,155	10,988	11,564	12,211	13,325	14,965	14,583
Saudi Arabia.....	3,619	3,720	3,778	3,887	4,054	4,389	4,697	4,913	5,309	5,835
South Africa.....	4,953	5,313	5,543	5,793	6,083	6,314	6,763	7,171	7,524	7,933
Switzerland.....	7,810	7,601	7,965	7,496	7,661	7,847	8,453	8,658	8,821	9,329
Tunisia.....	572	634	686	748	805	913	959	1,099	1,237	1,442
Turkey.....	12,118	13,009	13,704	13,547	14,733	13,959	14,660	15,943	17,366	19,432
All others.....	16,105	17,691	18,638	19,331	19,761	21,574	22,153	22,588	24,761	27,418
Financial services										
All regions/countries/economies.....	1,609,634	1,680,202	1,725,274	1,773,752	1,857,967	1,936,936	2,016,644	2,104,658	2,190,458	2,279,419
United States.....	593,687	627,187	651,587	686,489	740,489	773,793	787,694	815,496	833,793	856,295

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
EU	374,244	376,227	379,517	378,372	375,765	377,016	400,839	415,004	420,004	434,013
Austria	10,261	9,625	9,777	9,505	9,576	8,459	8,265	8,146	8,634	9,236
Belgium	11,905	12,424	12,568	13,331	12,623	12,119	13,272	12,967	13,338	13,557
Bulgaria	783	371	473	540	498	539	583	586	614	632
Czech Republic	1,285	1,178	1,991	1,761	1,319	1,667	1,475	1,473	1,591	1,621
Denmark	6,035	6,309	6,967	6,810	6,958	7,078	7,919	8,475	8,621	8,976
Finland	3,722	3,769	4,157	4,039	4,120	3,804	3,472	3,255	3,424	3,431
France	52,188	53,547	54,601	55,707	60,942	60,287	61,268	60,044	59,854	61,050
Germany	89,854	91,189	86,182	89,690	75,448	70,553	75,024	71,483	59,615	60,536
Greece	4,019	4,157	4,555	5,028	5,717	6,297	5,837	6,876	7,372	7,830
Hungary	2,062	1,889	1,748	1,713	1,440	1,579	1,907	2,174	2,423	2,390
Ireland	3,137	3,416	3,140	3,318	4,006	4,645	5,027	4,893	5,506	5,953
Italy	64,767	59,132	58,617	57,297	60,622	61,408	59,167	59,243	60,275	61,197
Netherlands	19,720	20,459	20,486	22,018	21,578	22,224	21,449	23,533	24,788	25,233
Poland	2,069	2,058	2,385	2,891	3,291	3,432	2,248	2,666	2,959	909
Portugal	3,770	4,274	4,877	5,458	6,001	6,523	6,848	7,599	8,159	8,261
Romania	728	564	517	520	483	504	527	435	480	525
Slovakia	606	684	695	725	673	661	909	1,027	1,054	970
Spain	27,240	28,297	29,325	27,549	27,596	30,429	30,617	31,753	33,623	35,108
Sweden	7,313	7,367	7,054	7,229	8,295	8,221	8,837	8,931	9,769	10,054
United Kingdom	62,781	65,520	69,405	63,243	64,576	66,587	86,188	99,445	107,905	116,546
Asia	437,922	464,509	469,304	481,826	505,251	541,269	565,466	606,042	644,748	681,537
China	67,422	74,711	79,284	89,511	105,294	117,882	127,265	151,172	172,743	192,471
India	16,822	17,526	20,323	21,713	23,523	24,024	24,575	26,751	28,095	29,231
Indonesia	4,384	4,704	3,018	2,526	3,805	4,126	4,307	4,552	4,830	5,041
Japan	269,395	279,311	280,597	281,866	288,681	306,765	309,728	319,406	332,034	342,825
Malaysia	2,953	3,433	3,389	3,687	3,910	4,467	5,161	5,557	6,041	6,267
Philippines	2,722	3,214	3,380	3,407	3,373	3,348	3,254	3,191	3,288	3,755
Singapore	8,448	10,603	9,672	9,805	9,989	10,637	10,269	10,947	11,697	12,768
South Korea	32,810	33,694	33,581	33,872	31,177	34,125	42,612	44,002	42,999	45,498
Taiwan	24,737	30,023	30,898	31,967	32,266	32,559	34,475	35,899	37,773	37,991
Thailand	8,229	7,291	5,163	3,474	3,233	3,335	3,819	4,565	5,250	5,689
All others	203,781	212,279	224,866	227,064	236,462	244,859	262,644	268,116	291,914	307,574
Argentina	8,267	9,312	11,032	11,203	11,524	10,652	8,395	6,813	6,294	7,354
Australia	21,697	22,374	24,321	26,127	26,012	26,202	28,672	29,583	31,835	31,689
Brazil	37,146	36,439	36,698	32,592	29,166	35,266	40,797	37,140	38,112	39,637
Canada	38,136	42,038	43,711	44,168	47,516	49,823	51,011	53,900	58,453	60,924
Chile	3,454	3,717	3,932	3,842	4,018	4,181	4,295	4,407	4,772	5,118
Costa Rica	580	623	658	664	725	743	783	886	958	998
Egypt	8,609	8,409	9,351	10,257	11,553	12,384	10,807	10,384	12,754	13,671
Iran	482	539	786	922	1,121	1,222	1,637	2,376	3,786	3,871
Israel	6,361	6,700	7,719	8,286	9,244	9,303	9,328	9,395	10,203	10,662

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Mexico	9,946	9,119	10,608	11,408	12,108	12,709	16,661	16,567	17,624	18,566
Morocco.....	342	342	365	394	448	481	511	567	611	625
Norway	4,900	4,916	4,657	5,098	5,262	5,493	5,075	5,589	6,083	6,384
Russia.....	2,717	2,917	2,647	2,789	3,240	3,660	5,148	5,581	6,877	8,014
Saudi Arabia.....	5,041	5,132	5,071	5,408	5,638	5,956	6,284	6,438	6,746	7,250
South Africa	5,938	6,166	5,990	6,290	6,242	6,727	7,084	7,701	8,926	9,429
Switzerland.....	25,101	27,974	30,992	31,605	36,546	33,935	37,276	40,040	42,660	43,441
Tunisia	147	155	162	182	204	205	216	229	242	251
Turkey.....	3,898	4,003	4,319	4,527	4,705	4,377	4,176	4,241	4,628	4,903
All others.....	21,018	21,407	21,847	21,303	21,191	21,540	24,488	26,279	30,351	34,786
Business services										
All regions/countries/economies	2,382,113	2,525,846	2,663,030	2,789,877	2,925,088	2,997,163	3,021,800	3,118,006	3,257,008	3,382,104
United States.....	1,031,322	1,097,501	1,155,851	1,223,182	1,261,773	1,256,347	1,255,772	1,302,622	1,369,010	1,442,004
EU	670,669	707,993	750,673	799,202	858,473	901,243	911,301	933,629	966,774	991,033
Austria	10,090	10,857	11,744	12,807	14,032	15,173	15,835	16,432	16,885	17,381
Belgium	19,290	20,892	22,023	23,202	24,826	26,392	25,653	26,959	28,721	29,162
Bulgaria	1,298	1,090	1,152	1,134	994	1,052	1,105	1,169	1,159	1,182
Czech Republic	3,550	3,236	3,556	3,831	4,194	4,302	4,105	4,122	4,237	4,635
Denmark.....	8,031	9,134	9,450	10,281	10,768	11,309	11,044	10,770	11,609	12,120
Finland.....	4,854	5,291	5,736	6,349	6,735	7,310	7,500	7,954	9,066	9,728
France.....	129,929	134,584	141,077	151,574	161,482	168,953	171,827	178,341	183,251	188,045
Germany.....	185,523	192,417	206,263	212,714	231,225	240,772	238,860	242,422	251,275	254,880
Greece.....	3,584	3,843	4,042	3,923	3,392	3,637	4,044	4,047	4,228	4,518
Hungary.....	3,328	3,015	3,249	3,332	3,460	3,672	3,786	3,608	3,712	3,565
Ireland.....	4,340	5,159	5,947	6,854	7,814	8,461	9,003	8,974	10,514	11,486
Italy.....	82,421	88,764	91,689	96,897	105,455	110,312	116,654	120,511	119,447	120,245
Netherlands.....	31,055	33,630	36,167	38,824	41,101	41,392	41,892	41,258	43,492	44,742
Poland.....	10,558	10,644	10,572	10,091	10,235	10,494	11,312	12,486	12,766	14,247
Portugal.....	4,843	5,144	5,489	6,029	6,129	6,228	6,217	6,058	6,346	6,464
Romania.....	1,601	1,730	1,802	1,803	1,824	2,386	2,691	2,444	3,261	3,556
Slovakia.....	731	1,054	1,042	1,132	1,106	1,131	1,146	1,159	1,399	1,570
Spain.....	23,557	24,986	26,550	28,769	32,065	34,993	35,228	35,571	37,675	39,336
Sweden.....	15,245	16,248	17,461	19,768	21,292	22,748	21,610	22,143	23,667	24,543
United Kingdom.....	126,842	136,276	145,663	159,886	170,344	180,527	181,790	187,199	194,065	199,629
Asia.....	407,460	430,444	454,240	455,091	480,090	506,108	520,652	543,040	565,162	573,215
China.....	22,577	26,513	27,024	28,087	31,930	36,414	43,382	49,629	52,508	58,336
India.....	12,434	13,109	13,921	18,191	19,124	20,433	21,261	23,113	25,298	27,956
Indonesia.....	4,814	5,294	4,227	3,791	5,725	6,016	6,436	6,843	7,404	7,985
Japan.....	322,747	336,071	360,530	355,716	371,734	391,524	393,584	405,506	419,362	415,689
Malaysia.....	4,789	5,635	5,526	5,780	5,882	6,398	7,341	7,790	8,347	8,751
Philippines.....	2,524	2,807	2,967	3,003	2,883	2,766	3,435	4,068	4,806	5,376
Singapore.....	7,923	8,610	8,618	8,852	9,586	9,439	9,811	9,704	9,901	10,573

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
South Korea	22,282	24,286	22,777	22,369	23,408	22,997	25,203	26,136	26,795	27,373
Taiwan	5,915	6,530	7,009	7,471	7,998	8,220	8,276	8,354	8,794	9,242
Thailand	1,456	1,590	1,641	1,830	1,820	1,902	1,924	1,897	1,947	1,934
All others	272,662	289,908	302,267	312,402	324,752	333,465	334,076	338,715	356,062	375,852
Argentina	22,931	24,364	25,507	25,369	25,675	24,992	22,290	22,372	23,377	25,183
Australia	32,015	34,401	37,938	40,371	42,645	44,082	44,673	46,513	46,798	49,948
Brazil	53,020	56,853	56,367	53,319	51,510	49,445	50,290	47,562	49,111	50,831
Canada	33,460	36,238	40,388	43,505	47,337	49,898	51,809	55,600	59,129	61,308
Chile	5,061	5,356	5,665	5,750	6,046	6,215	6,429	6,670	6,940	7,000
Costa Rica	491	509	536	566	649	743	788	828	887	928
Egypt	299	285	256	313	265	215	218	240	1,675	1,783
Iran	4,238	4,712	4,978	5,381	5,228	5,944	7,088	7,593	6,778	6,749
Israel	9,544	10,180	11,672	12,516	13,907	14,002	13,934	14,012	15,141	15,737
Mexico	25,643	26,968	28,389	31,377	34,788	36,677	33,731	32,591	33,753	36,027
Morocco	555	561	588	618	673	688	727	795	845	873
Norway	6,748	7,581	8,364	9,055	9,745	10,043	9,951	10,310	10,941	11,638
Russia	11,723	13,254	12,590	13,952	14,399	14,954	14,990	14,879	15,530	17,060
Saudi Arabia	7,675	7,912	7,684	8,131	8,482	8,709	9,139	9,438	9,843	10,604
South Africa	9,134	9,610	9,344	9,544	9,392	10,120	10,609	10,850	11,686	12,476
Switzerland	13,697	13,825	14,421	14,704	14,977	15,932	15,685	14,449	15,127	15,561
Tunisia	220	235	244	275	307	306	320	340	359	376
Turkey	6,166	6,469	6,764	6,504	7,079	6,666	7,156	7,700	8,606	9,334
All others	30,042	30,594	30,570	31,152	31,647	33,833	34,250	35,971	39,538	42,435
All Non-market-oriented knowledge-intensive services										
All regions/countries/economies	2,362,474	2,427,086	2,491,956	2,540,369	2,659,894	2,730,067	2,772,265	2,845,698	2,895,823	2,999,304
United States	951,517	959,053	975,540	991,871	1,017,775	1,036,179	1,072,182	1,114,454	1,146,362	1,179,288
EU	775,289	790,374	805,356	816,114	827,738	844,395	864,270	869,297	860,578	868,269
Austria	17,461	17,166	17,534	17,655	17,627	17,689	17,294	17,156	17,127	17,376
Belgium	25,540	25,634	25,209	26,515	26,984	27,897	28,242	28,803	29,346	29,080
Bulgaria	408	401	606	643	747	769	847	877	854	857
Czech Republic	3,853	3,584	3,173	3,451	3,809	3,419	3,776	4,004	3,856	3,498
Denmark	19,590	19,953	20,701	20,843	21,326	21,365	21,661	21,943	22,423	22,838
Finland	12,635	12,982	13,265	13,412	13,278	13,862	14,292	14,409	14,911	15,181
France	129,584	132,444	135,115	137,291	136,946	142,195	142,908	144,661	145,974	146,005
Germany	168,462	170,792	173,678	177,090	179,026	182,342	191,295	190,713	190,892	189,402
Greece	9,684	10,572	10,434	10,131	10,072	9,970	11,209	12,165	12,977	13,829
Hungary	3,509	3,735	3,799	3,831	3,778	3,887	3,924	4,114	4,072	3,891
Ireland	5,748	5,978	5,906	7,031	7,781	8,285	9,033	8,770	9,127	9,452
Italy	96,238	97,522	95,994	96,534	97,207	98,795	101,128	102,184	103,295	105,541
Netherlands	35,952	36,756	37,806	38,532	39,039	39,288	41,799	43,825	44,828	44,447
Poland	12,936	13,596	13,654	12,547	12,573	12,090	11,891	12,262	11,594	11,706
Portugal	10,927	10,971	11,417	11,694	12,003	12,312	12,402	12,616	12,880	12,857

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Romania.....	1,463	1,203	1,560	1,462	1,548	1,463	1,637	1,928	1,369	1,774
Slovakia.....	1,101	1,329	1,378	1,436	1,379	1,408	1,492	1,566	1,536	1,526
Spain.....	48,926	50,104	51,653	53,140	53,632	54,521	56,581	58,303	59,946	61,580
Sweden.....	29,722	29,473	30,307	31,328	31,841	32,588	33,402	34,008	35,161	35,434
United Kingdom.....	141,549	146,179	152,170	151,549	157,142	160,251	159,455	154,988	138,409	141,995
Asia.....	286,374	314,654	337,078	354,869	432,185	463,166	455,766	478,239	500,120	517,960
China.....	59,013	63,847	66,046	75,252	80,917	86,485	91,040	104,007	111,442	118,230
India.....	18,168	19,365	21,439	25,543	27,164	29,586	31,088	32,541	34,848	36,838
Indonesia.....	5,306	4,739	4,362	4,715	6,143	6,272	6,204	7,022	7,664	7,711
Japan.....	143,757	162,738	181,659	184,105	252,537	272,779	255,534	261,108	269,637	273,160
Malaysia.....	2,428	2,494	2,361	2,386	2,426	2,690	2,402	2,405	2,461	3,840
Philippines.....	2,316	2,448	2,662	2,852	3,085	3,288	3,589	3,940	4,480	4,662
Singapore.....	5,323	5,895	6,155	6,465	7,037	7,571	6,907	7,049	7,297	7,347
South Korea.....	34,795	36,667	34,972	35,334	33,844	35,017	38,446	39,496	40,944	43,908
Taiwan.....	9,141	10,309	11,488	11,765	12,493	12,982	13,630	13,854	14,223	14,742
Thailand.....	6,128	6,150	5,934	6,450	6,539	6,496	6,926	6,818	7,124	7,521
All others.....	349,293	363,005	373,983	377,516	382,196	386,327	380,047	383,709	388,763	433,787
Argentina.....	20,153	22,188	23,280	23,319	23,999	23,036	17,393	17,259	17,165	19,748
Australia.....	35,651	36,363	37,469	38,459	39,476	41,272	41,281	43,257	44,678	46,162
Brazil.....	41,227	41,312	39,766	39,606	39,723	38,036	36,673	35,414	28,021	49,901
Canada.....	70,994	68,880	70,502	71,100	72,062	72,187	73,853	76,034	78,469	80,368
Chile.....	6,943	7,003	7,000	7,477	7,752	7,834	8,012	8,040	8,403	8,660
Costa Rica.....	1,481	1,549	1,698	1,746	1,903	2,006	2,058	2,157	2,111	2,150
Egypt.....	9,556	9,270	8,888	8,474	8,248	8,724	8,923	8,704	10,109	10,014
Iran.....	1,743	1,978	3,697	3,009	2,888	3,357	2,702	2,860	6,487	6,237
Israel.....	12,229	13,116	13,206	13,488	13,952	14,165	13,573	13,295	13,922	14,233
Mexico.....	43,338	44,392	45,928	47,516	47,429	47,735	47,838	46,773	46,250	47,873
Morocco.....	2,895	2,947	2,972	3,017	2,997	3,046	3,095	3,192	2,678	3,905
Norway.....	16,546	17,005	17,365	17,772	17,996	18,479	18,997	19,317	19,679	20,258
Russia.....	12,578	13,531	12,774	10,694	11,560	12,783	14,797	15,199	16,115	16,908
Saudi Arabia.....	7,827	8,448	8,894	9,149	9,554	9,873	10,252	10,553	10,910	11,585
South Africa.....	7,779	7,766	8,016	8,036	8,045	7,855	5,312	5,859	7,484	11,227
Switzerland.....	15,074	15,025	15,142	14,764	14,850	15,273	15,625	15,464	15,596	15,584
Tunisia.....	1,263	1,325	1,360	1,405	1,475	1,383	1,446	1,582	1,706	2,188
Turkey.....	6,151	7,037	9,346	10,347	8,636	6,445	8,262	10,846	7,826	9,531
All others.....	35,865	43,870	46,681	48,137	49,650	52,835	49,954	47,905	51,155	57,255
Education										
All regions/countries/economies.....	1,068,467	1,095,328	1,125,187	1,148,252	1,170,336	1,182,690	1,197,510	1,229,397	1,247,510	1,284,696
United States.....	426,941	435,277	450,163	459,095	471,600	471,004	483,509	500,181	512,090	521,618
EU.....	349,750	354,855	361,332	364,712	366,998	372,652	376,860	379,508	370,981	373,072
Austria.....	8,801	9,176	9,184	9,490	9,404	9,434	9,525	9,530	9,510	9,648
Belgium.....	13,147	13,181	13,143	13,225	13,243	13,745	13,863	14,118	14,268	14,139

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Bulgaria	238	233	355	363	469	473	474	479	485	487
Czech Republic	1,675	1,627	1,526	1,751	1,898	1,685	1,843	1,930	1,889	1,721
Denmark	6,671	6,713	7,030	7,057	7,290	7,302	7,446	7,581	7,699	7,749
Finland	4,680	4,845	5,001	5,124	5,069	5,200	5,378	5,397	5,549	5,617
France	56,368	57,805	59,554	60,967	60,331	62,306	60,738	60,690	61,001	60,905
Germany	71,254	71,746	71,790	72,024	71,949	72,183	72,616	72,303	71,001	69,649
Greece	4,788	5,083	4,931	4,847	4,721	4,774	5,303	5,915	6,345	6,780
Hungary	1,792	1,891	1,941	1,960	1,920	2,015	2,025	2,109	2,116	1,969
Ireland	2,668	2,747	2,616	2,934	3,057	3,182	3,395	3,291	3,451	3,534
Italy	52,024	51,696	50,756	50,687	50,046	50,604	52,989	54,092	53,798	54,911
Netherlands	13,104	13,547	13,975	14,110	14,158	13,906	14,233	14,659	14,891	14,768
Poland	6,409	6,472	6,821	6,595	6,692	6,530	6,499	7,312	6,807	6,896
Portugal	6,189	6,338	6,486	6,598	6,610	6,705	6,750	6,744	6,875	6,867
Romania	865	738	826	835	922	872	976	1,093	791	1,025
Slovakia	446	488	575	572	636	626	702	763	785	786
Spain	21,616	22,262	22,871	23,234	24,933	25,497	26,155	26,768	27,479	28,241
Sweden	10,584	10,604	11,281	11,294	11,238	11,400	11,718	12,174	12,623	12,732
United Kingdom	66,430	67,663	70,671	71,047	72,413	74,212	74,232	72,561	63,619	64,649
Asia	121,006	125,050	127,390	136,969	143,862	149,584	154,684	167,321	178,496	184,692
China	32,254	35,519	37,844	44,440	48,483	51,431	54,339	63,431	68,570	72,750
India	8,152	8,656	9,542	11,288	11,902	12,929	13,487	14,051	15,019	15,875
Indonesia	2,321	2,066	1,914	2,073	2,692	2,753	2,728	3,093	3,367	3,377
Japan	44,190	42,995	42,144	42,942	43,860	43,998	42,685	44,395	47,701	46,333
Malaysia	1,089	1,115	1,058	1,055	1,063	1,169	1,031	1,028	1,050	1,621
Philippines	1,462	1,559	1,698	1,819	1,941	2,058	2,219	2,414	2,726	2,781
Singapore	2,338	2,579	2,697	2,827	3,083	3,308	3,028	3,089	3,204	3,227
South Korea	22,803	23,647	23,125	22,812	22,724	23,655	26,488	26,981	27,729	29,285
Taiwan	3,648	4,183	4,672	4,875	5,251	5,527	5,723	5,848	5,992	6,195
Thailand	2,749	2,733	2,695	2,839	2,865	2,755	2,956	2,992	3,137	3,247
All others	170,771	180,146	186,302	187,475	187,876	189,451	182,457	182,386	185,943	205,314
Argentina	11,298	12,357	12,987	13,116	13,569	12,881	9,943	9,901	9,915	11,673
Australia	15,843	16,263	16,829	17,043	17,312	17,849	17,338	18,096	18,555	18,797
Brazil	18,497	18,465	17,699	17,503	17,404	16,529	15,739	15,135	11,952	21,064
Canada	31,462	30,519	31,493	31,845	31,501	31,286	32,055	32,760	33,885	34,754
Chile	3,381	3,312	3,320	3,652	3,816	3,871	3,967	4,067	4,243	4,375
Costa Rica	664	692	756	776	834	872	883	922	900	907
Egypt	9,363	9,049	8,633	8,174	7,935	8,381	8,548	8,327	9,586	9,478
Iran	584	746	2,253	1,623	1,150	1,456	1,058	1,138	2,975	2,832
Israel	7,282	7,817	7,854	7,983	8,128	8,243	7,859	7,480	7,889	8,068
Mexico	28,380	28,892	29,591	30,601	30,373	30,586	30,607	29,963	29,453	30,286
Morocco	1,299	1,317	1,323	1,333	1,313	1,324	1,328	1,364	1,142	1,649
Norway	5,810	5,917	6,165	6,316	6,399	6,458	6,438	6,630	6,778	6,935

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Russia.....	7,043	7,559	7,118	5,999	6,374	7,048	6,720	6,768	7,245	7,434
Saudi Arabia.....	3,512	3,777	3,959	4,044	4,186	4,340	4,493	4,628	4,792	5,075
South Africa.....	3,471	3,452	3,548	3,552	3,525	3,437	2,308	2,539	3,246	4,859
Switzerland.....	1,721	1,698	1,684	1,621	1,564	1,548	1,509	1,399	1,406	1,382
Tunisia.....	563	589	601	621	646	607	630	685	738	944
Turkey.....	2,760	3,146	4,160	4,573	3,784	2,839	3,546	4,636	3,338	4,023
All others.....	17,836	24,580	26,328	27,104	28,060	29,896	27,487	25,947	27,904	30,777
Health										
All regions/countries/economies.....	1,294,006	1,331,758	1,366,768	1,392,117	1,489,559	1,547,376	1,574,755	1,616,301	1,648,313	1,714,608
United States.....	524,576	523,776	525,376	532,776	546,175	565,175	588,674	614,272	634,272	657,670
EU.....	425,540	435,519	444,023	451,401	460,740	471,743	487,409	489,788	489,597	495,197
Austria.....	8,660	7,990	8,349	8,165	8,224	8,255	7,769	7,626	7,617	7,728
Belgium.....	12,393	12,453	12,066	13,290	13,741	14,152	14,379	14,686	15,078	14,941
Bulgaria.....	170	169	251	280	278	296	374	399	369	370
Czech Republic.....	2,178	1,957	1,647	1,700	1,911	1,735	1,934	2,075	1,966	1,776
Denmark.....	12,919	13,241	13,671	13,786	14,036	14,062	14,215	14,362	14,724	15,089
Finland.....	7,955	8,137	8,264	8,288	8,209	8,662	8,914	9,012	9,362	9,564
France.....	73,217	74,638	75,560	76,324	76,616	79,889	82,170	83,971	84,973	85,100
Germany.....	97,208	99,046	101,888	105,066	107,077	110,158	118,679	118,410	119,892	119,752
Greece.....	4,896	5,488	5,503	5,284	5,351	5,196	5,906	6,251	6,632	7,049
Hungary.....	1,717	1,844	1,857	1,871	1,858	1,872	1,899	2,005	1,956	1,921
Ireland.....	3,080	3,231	3,290	4,097	4,724	5,102	5,639	5,479	5,677	5,919
Italy.....	44,213	45,826	45,239	45,848	47,161	48,191	48,139	48,092	49,497	50,630
Netherlands.....	22,848	23,208	23,831	24,422	24,881	25,383	27,566	29,166	29,937	29,679
Poland.....	6,527	7,124	6,832	5,952	5,881	5,560	5,391	4,950	4,787	4,810
Portugal.....	4,738	4,633	4,930	5,096	5,393	5,608	5,652	5,872	6,005	5,990
Romania.....	598	465	734	627	625	591	660	835	578	749
Slovakia.....	655	841	804	864	743	782	790	803	751	740
Spain.....	27,310	27,842	28,782	29,906	28,700	29,023	30,426	31,535	32,467	33,339
Sweden.....	19,138	18,870	19,027	20,034	20,603	21,188	21,684	21,833	22,538	22,703
United Kingdom.....	75,119	78,516	81,499	80,503	84,729	86,039	85,223	82,428	74,790	77,346
Asia.....	165,368	189,603	209,687	217,899	288,323	313,582	301,082	310,917	321,625	333,268
China.....	26,759	28,328	28,201	30,812	32,435	35,054	36,701	40,576	42,872	45,480
India.....	10,017	10,710	11,897	14,255	15,262	16,656	17,600	18,489	19,829	20,963
Indonesia.....	2,984	2,674	2,448	2,642	3,452	3,519	3,476	3,929	4,297	4,333
Japan.....	99,567	119,743	139,515	141,162	208,677	228,781	212,849	216,713	221,936	226,827
Malaysia.....	1,339	1,379	1,303	1,332	1,363	1,521	1,371	1,377	1,411	2,219
Philippines.....	853	889	963	1,033	1,144	1,230	1,370	1,526	1,754	1,881
Singapore.....	2,985	3,316	3,458	3,639	3,954	4,263	3,879	3,961	4,093	4,121
South Korea.....	11,993	13,021	11,847	12,522	11,121	11,362	11,958	12,514	13,214	14,623
Taiwan.....	5,493	6,126	6,816	6,890	7,243	7,455	7,907	8,006	8,231	8,546
Thailand.....	3,379	3,418	3,239	3,612	3,674	3,741	3,970	3,826	3,988	4,274

Value-added revenue of knowledge-intensive services for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All others.....	178,522	182,859	187,681	190,041	194,320	196,876	197,590	201,323	202,820	228,473
Argentina.....	8,855	9,831	10,293	10,204	10,429	10,155	7,450	7,358	7,249	8,075
Australia.....	19,808	20,101	20,640	21,417	22,164	23,423	23,943	25,161	26,123	27,365
Brazil.....	22,729	22,847	22,067	22,103	22,319	21,507	20,934	20,279	16,070	28,837
Canada.....	39,532	38,361	39,009	39,255	40,561	40,901	41,799	43,274	44,584	45,613
Chile.....	3,561	3,691	3,679	3,825	3,936	3,963	4,045	3,973	4,160	4,285
Costa Rica.....	816	857	942	970	1,069	1,134	1,175	1,235	1,210	1,242
Egypt.....	193	220	254	300	313	343	374	377	523	536
Iran.....	1,159	1,232	1,444	1,386	1,738	1,902	1,644	1,722	3,512	3,405
Israel.....	4,947	5,298	5,352	5,505	5,824	5,922	5,714	5,815	6,033	6,166
Mexico.....	14,958	15,501	16,337	16,915	17,055	17,149	17,232	16,810	16,797	17,587
Morocco.....	1,596	1,630	1,649	1,684	1,684	1,723	1,766	1,828	1,535	2,257
Norway.....	10,736	11,087	11,200	11,456	11,597	12,022	12,558	12,687	12,901	13,323
Russia.....	5,535	5,972	5,656	4,695	5,186	5,735	8,077	8,431	8,870	9,474
Saudi Arabia.....	4,315	4,672	4,935	5,105	5,368	5,534	5,759	5,925	6,118	6,510
South Africa.....	4,308	4,314	4,468	4,485	4,520	4,418	3,005	3,320	4,238	6,368
Switzerland.....	13,353	13,327	13,458	13,143	13,286	13,726	14,115	14,065	14,190	14,201
Tunisia.....	700	736	758	784	829	775	816	897	968	1,244
Turkey.....	3,391	3,892	5,186	5,775	4,852	3,606	4,716	6,211	4,488	5,508
All others.....	18,030	19,290	20,353	21,033	21,590	22,940	22,467	21,959	23,251	26,478

EU = European Union

NOTES: Knowledge-intensive services classified by Organisation for Economic Co-operation and Development and include business, financial, communications, education, and health services. Market-oriented knowledge-intensive services exclude education and health services. Non-market-oriented knowledge-intensive services include education and health. Value-added revenue excludes purchases of domestic and imported materials and inputs. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Value-added revenue of selected service industries for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Real estate											
All regions/countries/economies	1,951,520	1,985,870	2,065,241	2,146,273	2,212,843	2,214,576	2,287,897	2,399,177	2,462,577	2,557,882	2,626,058
United States.....	746,395	748,111	781,413	809,313	832,314	843,714	854,114	886,015	900,115	925,515	947,516
EU.....	530,683	539,639	551,123	566,527	580,425	596,210	638,461	656,436	660,613	685,676	705,287
Austria	11,238	11,027	11,048	11,377	11,854	12,075	12,188	12,663	12,823	13,544	13,698
Belgium	13,580	14,179	14,416	15,615	16,428	17,432	18,061	18,945	19,433	20,304	21,517
Bulgaria	687	681	699	778	754	818	688	366	362	448	342
Czech Republic	615	592	517	494	611	1,936	1,967	1,757	2,100	2,141	2,795
Denmark.....	12,021	11,768	11,980	12,115	12,349	13,873	13,820	13,612	13,797	13,657	13,816
Finland.....	7,335	7,559	7,716	7,974	8,095	7,929	8,546	9,054	9,111	9,341	9,493
France.....	96,464	98,160	101,505	104,921	108,933	110,153	112,548	117,091	118,246	120,492	122,268
Germany.....	105,841	109,282	113,318	116,893	120,658	127,764	158,832	163,188	164,360	173,790	190,204
Greece.....	10,426	10,564	10,879	11,182	11,589	12,199	12,973	13,759	14,055	14,230	14,956
Hungary.....	1,681	1,809	2,047	2,394	2,490	2,516	2,846	2,679	2,603	2,625	2,741
Ireland.....	2,088	2,206	2,221	2,319	2,223	2,684	2,709	2,818	2,830	3,053	2,884
Italy.....	76,401	79,672	83,469	87,363	90,464	92,626	90,794	91,519	89,706	94,607	93,026
Netherlands.....	17,610	18,661	19,069	19,364	20,173	20,893	21,532	22,077	22,302	23,510	24,023
Poland.....	3,692	3,842	3,917	4,111	4,067	3,570	4,595	7,886	7,221	8,864	7,617
Portugal.....	2,171	2,226	2,425	2,630	3,203	3,292	4,064	4,781	4,775	4,347	4,747
Romania.....	585	477	600	568	554	640	466	1,098	984	1,481	999
Slovakia.....	1,195	1,192	1,272	1,289	1,313	1,284	1,105	941	935	954	1,364
Spain.....	30,053	32,258	31,900	32,637	32,879	32,781	33,523	35,230	35,980	36,438	37,192
Sweden.....	16,621	16,118	16,435	16,529	16,639	16,579	18,671	20,722	20,857	21,578	21,633
United Kingdom.....	120,379	117,367	115,688	115,975	115,148	115,167	118,532	116,252	118,135	120,273	119,972
Asia.....	482,227	508,025	530,425	561,809	571,289	551,684	559,149	610,613	646,917	686,993	701,464
China.....	10,603	11,857	12,945	13,722	13,726	13,520	14,954	18,841	20,392	23,930	23,864
India.....	7,376	7,884	8,466	9,395	9,759	10,093	10,267	11,197	10,864	11,665	11,925
Indonesia.....	2,216	2,433	2,533	2,327	2,740	3,270	3,743	3,837	3,668	3,844	4,063
Japan.....	433,750	455,238	473,372	500,005	506,406	482,091	483,695	526,849	557,566	588,745	597,915
Malaysia.....	1,115	1,289	1,282	1,338	1,418	1,552	1,679	2,090	2,655	2,756	3,037
Philippines.....	1,090	1,173	1,377	1,519	1,731	1,851	1,805	1,826	1,857	1,902	1,991
Singapore.....	2,575	2,747	3,023	3,212	3,452	3,690	3,942	4,079	4,272	4,639	5,020
South Korea.....	16,111	17,182	17,973	19,295	20,148	22,031	24,034	25,612	27,636	29,529	31,394
Taiwan.....	6,532	7,356	8,586	10,106	10,925	12,602	14,000	15,458	17,140	19,064	21,220
Thailand.....	859	866	869	891	983	984	1,030	823	867	919	1,034
All others.....	192,214	190,094	202,281	208,623	228,816	222,967	236,173	246,113	254,931	259,698	271,791
Restaurants and hotels											
All regions/countries/economies	487,054	493,508	512,564	516,572	529,188	541,782	553,900	589,366	578,345	594,787	616,483
United States.....	164,254	165,080	172,181	178,408	181,872	186,074	179,490	186,434	195,799	201,935	212,306
EU.....	158,279	159,459	163,851	169,022	175,011	179,139	185,272	185,028	182,390	187,703	190,084
Austria.....	5,144	5,328	5,422	5,530	5,861	5,993	6,210	6,425	6,397	6,223	6,499
Belgium.....	2,417	2,420	2,502	2,625	2,745	2,885	2,911	3,041	2,987	3,063	3,147

Value-added revenue of selected service industries for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Bulgaria	26	23	34	36	38	36	51	68	90	124	151
Czech Republic	141	145	129	140	134	178	214	203	441	751	1,913
Denmark	1,783	1,737	1,735	1,785	1,904	1,937	1,864	1,854	2,134	2,393	2,530
Finland	1,080	1,131	1,196	1,269	1,326	1,388	1,283	1,127	1,027	1,061	1,213
France	33,684	32,280	30,384	30,428	31,796	32,874	33,312	32,449	31,123	31,229	29,446
Germany	18,723	18,244	18,920	19,239	19,556	20,665	25,877	25,903	25,050	24,374	22,990
Greece	5,479	5,308	5,245	5,512	5,695	5,763	5,912	5,897	5,624	5,644	5,728
Hungary	333	358	388	370	400	520	883	1,005	836	812	777
Ireland	1,031	980	994	954	964	1,252	1,326	1,379	1,472	1,585	1,602
Italy	25,252	25,147	26,070	27,286	27,718	28,289	27,864	28,787	28,776	29,803	31,111
Netherlands	3,923	3,956	4,095	4,097	4,458	4,708	4,947	5,147	5,446	5,487	5,432
Poland	276	301	306	306	313	371	204	802	842	1,008	1,094
Portugal	1,374	1,358	1,429	1,513	1,673	1,893	2,206	2,143	2,126	2,100	2,172
Romania	327	296	328	328	330	343	671	767	564	408	669
Slovakia	32	37	36	44	47	55	67	80	180	193	296
Spain	27,833	29,044	31,319	32,602	34,139	34,469	35,239	35,647	34,802	36,647	37,775
Sweden	2,575	2,813	2,990	2,983	3,092	2,712	2,632	2,682	2,324	2,347	2,408
United Kingdom	26,844	28,552	30,330	31,977	32,823	32,807	31,600	29,623	30,149	32,450	33,131
Asia	63,387	70,143	76,753	83,288	84,998	89,662	93,233	94,541	96,702	99,786	105,804
China	7,632	7,639	8,799	10,102	10,056	8,838	9,748	11,250	11,768	11,130	11,534
India	1,620	1,710	1,779	1,977	2,063	2,185	2,113	2,311	2,501	2,691	3,191
Indonesia	2,183	2,363	2,539	2,448	2,706	2,997	3,346	3,607	3,739	4,154	4,486
Japan	40,075	45,294	48,958	52,270	53,511	57,216	58,027	58,426	58,540	59,788	61,448
Malaysia	546	545	551	600	659	777	877	981	1,083	1,286	1,460
Philippines	776	781	836	893	936	937	921	958	1,020	1,096	1,158
Singapore	840	889	978	1,135	1,275	1,322	1,336	1,461	1,549	1,626	1,709
South Korea	2,883	3,478	3,816	4,510	5,357	6,054	6,770	7,415	7,973	9,015	10,070
Taiwan	1,537	1,757	2,013	2,155	2,494	2,830	3,144	3,347	3,729	4,039	4,362
Thailand	5,295	5,689	6,484	7,199	5,941	6,505	6,952	4,783	4,800	4,960	6,384
All others	101,134	98,825	99,778	85,853	87,309	86,907	95,906	123,363	103,454	105,363	108,289
Retail and wholesale											
All regions/countries/economies	2,140,428	2,261,968	2,324,619	2,477,842	2,569,627	2,637,731	2,750,570	2,878,373	2,933,769	3,047,063	3,112,267
United States	621,930	674,750	659,469	708,603	736,494	735,051	745,405	802,044	830,226	884,611	902,173
EU	563,225	588,470	612,897	640,092	660,469	686,123	721,655	724,406	736,158	754,581	770,626
Austria	14,397	15,172	15,674	16,336	17,276	18,487	19,482	19,820	19,346	19,841	20,344
Belgium	22,726	23,104	23,234	23,409	22,502	23,098	24,459	24,498	24,254	24,221	24,289
Bulgaria	383	349	505	531	565	546	755	816	802	873	854
Czech Republic	2,889	3,030	2,679	2,925	2,816	3,742	3,707	3,773	3,762	3,860	4,479
Denmark	12,280	13,074	13,094	12,646	11,343	11,272	12,331	12,276	12,481	12,749	13,379
Finland	8,874	9,250	9,964	10,539	11,515	11,180	9,723	8,228	7,692	8,055	8,482
France	75,400	79,855	82,993	87,758	91,986	97,176	97,884	96,111	97,662	100,524	104,489
Germany	98,564	103,200	106,643	112,144	116,926	124,177	155,838	164,335	170,351	170,571	174,005

Value-added revenue of selected service industries for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Greece	11,352	11,464	11,355	11,999	12,469	12,649	12,927	12,956	12,392	12,375	12,648
Hungary	2,685	2,907	3,130	3,005	3,307	4,283	5,128	4,274	4,184	3,989	4,118
Ireland.....	3,329	3,382	3,463	3,414	4,188	5,552	5,439	4,572	5,256	4,819	5,207
Italy.....	97,111	99,398	103,770	107,588	109,171	111,687	113,411	113,611	111,889	115,189	119,133
Netherlands.....	24,927	27,203	27,908	28,130	29,757	31,155	32,302	32,401	31,912	32,619	33,904
Poland.....	18,714	20,510	20,797	20,840	21,410	25,497	26,461	19,929	21,080	24,387	23,143
Portugal	9,485	9,684	10,354	11,084	11,163	11,610	11,694	11,980	11,945	12,322	11,489
Romania.....	1,759	1,502	1,694	1,686	1,689	1,866	2,384	3,332	2,454	2,390	2,811
Slovakia.....	337	391	379	461	491	582	705	839	1,895	2,066	1,745
Spain	42,011	42,440	44,614	46,541	48,102	48,736	48,980	49,752	49,370	50,274	50,663
Sweden.....	15,206	16,581	16,815	17,715	18,335	17,848	17,086	17,047	16,487	17,965	18,949
United Kingdom.....	100,795	105,973	113,833	121,342	125,459	124,979	120,959	123,857	130,944	135,492	136,495
Asia.....	622,923	653,349	702,582	761,148	796,217	837,893	882,638	909,543	937,024	965,158	988,175
China	45,687	51,486	59,631	68,457	64,433	62,512	66,924	74,373	79,296	87,099	91,810
India.....	20,523	22,252	23,540	25,850	27,179	28,783	29,448	30,347	32,173	34,445	38,041
Indonesia	10,108	10,918	11,690	11,478	12,761	14,111	15,792	17,042	17,743	18,936	20,437
Japan.....	496,870	514,212	546,904	587,897	620,624	653,164	685,047	700,457	712,901	722,362	723,749
Malaysia	3,613	3,651	3,674	4,034	4,484	5,334	6,098	6,853	7,592	8,442	9,383
Philippines	4,635	4,897	5,046	5,325	5,775	6,080	6,132	6,212	6,400	6,663	7,030
Singapore.....	3,410	3,432	3,796	4,430	4,765	5,382	5,968	6,140	7,391	8,403	9,264
South Korea	17,589	20,358	23,569	25,891	26,117	28,377	29,656	30,334	31,673	33,123	34,880
Taiwan	12,159	13,435	14,992	16,622	18,463	21,098	23,543	25,875	28,964	31,503	34,330
Thailand.....	8,327	8,708	9,740	11,163	11,617	13,052	14,031	11,910	12,891	14,183	19,250
All others.....	332,349	345,400	349,671	367,998	376,446	378,664	400,873	442,381	430,361	442,713	451,293
Transportation and storage											
All regions/countries/economies	751,673	781,967	817,217	868,062	899,732	935,787	969,292	1,011,478	1,034,136	1,082,436	1,115,664
United States.....	158,744	162,195	168,012	174,913	179,513	187,914	196,214	207,415	217,116	234,717	242,718
EU	227,784	235,152	245,548	258,816	269,178	278,918	287,755	295,559	290,661	303,625	311,649
Austria	7,501	7,884	8,215	8,572	8,838	9,360	10,547	11,664	11,511	11,914	10,011
Belgium	8,686	8,026	8,098	8,945	9,404	10,046	10,299	10,325	10,207	10,576	10,641
Bulgaria	308	276	423	445	462	453	615	625	635	640	544
Czech Republic	1,190	1,254	1,154	1,203	1,128	1,215	1,460	2,186	3,363	3,071	3,975
Denmark.....	5,465	5,963	6,735	6,933	7,113	7,403	7,015	7,777	6,833	7,430	8,098
Finland.....	4,790	5,093	5,319	5,593	5,938	6,358	6,110	6,086	6,104	6,239	6,529
France.....	30,364	30,821	31,861	34,343	36,441	36,886	37,226	39,084	38,034	39,780	39,419
Germany	30,864	31,866	32,860	34,177	35,358	37,455	46,581	46,547	45,487	47,304	51,312
Greece	2,256	2,244	2,244	2,419	2,554	2,606	2,622	2,765	2,911	2,963	3,156
Hungary	2,142	2,304	2,443	2,421	2,540	2,361	2,427	2,217	2,017	2,024	2,232
Ireland.....	1,195	1,206	1,364	1,504	1,407	1,718	1,901	1,940	1,906	2,054	2,084
Italy.....	36,508	39,211	39,177	42,179	44,116	45,583	46,298	46,781	47,574	49,866	48,262
Netherlands.....	10,723	11,179	11,865	12,168	12,688	13,268	13,663	14,245	14,236	14,580	15,069
Poland.....	3,863	4,166	4,467	4,482	4,496	5,411	4,436	3,796	3,398	4,005	6,639

Value-added revenue of selected service industries for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Portugal	2,718	2,721	2,810	3,019	3,059	3,147	3,421	3,294	3,245	3,384	3,461
Romania.....	1,358	1,219	1,395	1,358	1,494	1,302	1,074	1,865	2,046	2,509	2,121
Slovakia.....	1,648	1,694	1,347	1,387	1,440	1,378	1,500	1,424	1,349	1,691	1,497
Spain	23,751	23,130	24,615	25,352	26,142	26,697	27,011	28,367	27,886	30,069	31,012
Sweden.....	7,944	8,981	9,568	10,345	10,487	11,208	11,293	11,878	10,465	10,485	11,347
United Kingdom.....	44,512	45,914	49,589	51,972	54,071	55,064	52,254	52,692	51,454	53,041	54,239
Asia.....	210,545	229,230	241,869	263,738	279,237	288,310	303,502	323,604	334,600	346,667	360,467
China	19,934	22,593	25,353	28,277	29,058	31,773	34,412	38,057	41,522	44,582	47,047
India.....	10,489	11,358	12,051	13,594	13,974	14,683	14,892	16,164	16,678	17,916	19,465
Indonesia	3,161	3,289	3,482	3,286	3,637	3,965	4,302	4,652	4,760	4,893	5,119
Japan.....	155,387	168,266	175,008	190,062	201,233	204,012	213,873	226,824	232,355	236,896	243,403
Malaysia	1,255	1,257	1,343	1,480	1,601	1,698	1,952	2,072	2,327	2,755	3,084
Philippines	1,599	1,647	1,746	1,861	1,947	1,953	1,919	1,952	1,903	1,986	2,132
Singapore.....	1,452	1,596	1,729	1,925	2,119	2,304	2,486	2,654	2,942	3,225	3,548
South Korea	9,935	11,081	12,191	13,270	14,736	16,113	17,176	18,065	17,977	19,071	20,246
Taiwan	4,868	5,625	6,185	6,768	7,205	7,631	8,069	8,627	9,125	9,856	10,152
Thailand.....	2,463	2,519	2,780	3,215	3,727	4,179	4,421	4,538	5,010	5,486	6,271
All others.....	154,601	155,390	161,788	170,595	171,804	180,646	181,820	184,900	191,760	197,427	200,830

EU = European Union

NOTES: Value-added revenue excludes purchases of domestic and imported materials and inputs. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Value-added revenue of selected service industries for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Real estate										
All regions/countries/economies	2,682,268	2,744,875	2,778,542	2,833,424	2,910,909	3,008,984	3,068,023	3,135,176	3,269,845	3,365,483
United States	964,816	994,517	1,010,117	1,051,417	1,082,118	1,125,719	1,129,319	1,152,019	1,225,720	1,273,921
EU	726,414	735,942	748,271	746,462	767,609	788,719	814,349	826,915	853,884	866,599
Austria	13,445	13,460	13,581	13,877	14,135	14,574	14,710	14,486	14,634	14,621
Belgium	21,522	22,248	21,742	21,429	21,689	21,711	21,177	22,091	22,924	23,051
Bulgaria	962	806	847	836	730	773	812	857	853	870
Czech Republic	2,653	2,712	2,678	2,663	3,156	3,538	3,583	3,898	4,124	4,451
Denmark	14,147	14,113	14,255	14,489	15,032	15,025	14,833	14,677	15,535	16,027
Finland	9,705	10,017	10,123	10,824	10,990	11,262	11,929	12,559	13,526	13,750
France	125,481	128,462	130,815	133,750	142,543	147,884	148,662	153,064	157,709	161,838
Germany	203,917	206,371	211,042	204,759	211,014	219,653	234,602	237,113	243,885	245,344
Greece	15,395	15,754	15,783	14,834	12,691	13,380	14,177	14,700	15,301	16,401
Hungary	2,753	2,905	3,124	3,234	3,566	3,665	3,783	3,592	3,676	3,540
Ireland	3,232	3,829	4,380	5,058	5,738	6,127	6,418	6,363	7,192	7,620
Italy	96,110	96,317	96,113	93,411	93,196	95,210	98,764	99,810	98,747	98,148
Netherlands	24,917	25,726	26,366	26,816	27,380	26,374	27,824	28,381	29,349	29,293
Poland	7,821	7,872	7,776	7,433	7,516	7,689	8,302	9,157	9,388	10,473
Portugal	4,799	5,142	5,463	5,828	6,130	6,266	6,198	5,749	5,961	5,964
Romania	1,188	1,281	1,325	1,331	1,339	1,729	1,922	1,751	2,335	2,556
Slovakia	1,215	1,322	1,394	1,593	1,550	1,597	1,572	1,595	1,928	2,170
Spain	37,824	38,321	39,033	39,824	42,177	43,493	43,525	43,676	46,336	48,049
Sweden	21,400	22,225	22,115	22,630	23,252	23,172	23,601	24,056	25,248	25,366
United Kingdom	117,929	117,058	120,316	121,843	123,785	125,597	127,954	129,341	135,236	137,067
Asia	706,608	720,546	718,939	725,274	746,189	770,645	790,083	808,688	826,509	843,278
China	25,193	28,081	30,429	31,282	34,394	37,566	40,874	47,327	51,225	55,170
India	11,991	12,399	12,651	13,070	14,043	15,121	15,701	16,982	18,587	20,482
Indonesia	3,997	4,254	3,269	2,832	4,204	4,531	4,876	5,255	5,667	6,052
Japan	595,605	601,543	595,357	601,455	615,435	635,231	649,523	657,785	667,666	676,690
Malaysia	3,554	4,171	4,064	4,266	4,319	4,637	5,195	5,442	5,709	5,805
Philippines	2,204	2,391	2,458	2,359	2,117	1,877	2,195	2,065	1,964	2,083
Singapore	5,613	5,902	6,195	6,478	7,039	7,222	7,463	7,662	7,809	8,169
South Korea	33,286	35,756	37,463	36,459	36,780	36,472	36,347	37,280	37,850	38,468
Taiwan	24,058	24,880	25,829	25,778	26,522	26,621	26,548	27,516	28,616	28,964
Thailand	1,108	1,167	1,223	1,293	1,337	1,368	1,360	1,374	1,416	1,395
All others	284,429	293,871	301,216	310,271	314,994	323,902	334,272	347,554	363,732	381,686
Restaurants and hotels										
All regions/countries/economies	631,961	657,341	683,603	705,432	733,216	746,522	758,573	769,057	783,633	806,729
United States	221,363	230,025	243,288	252,604	261,443	262,050	268,596	272,279	270,072	279,311
EU	190,487	200,298	207,414	213,681	217,497	219,278	218,350	220,511	227,678	232,323
Austria	6,387	6,497	6,564	6,929	7,137	7,514	7,797	7,967	8,055	8,167
Belgium	3,007	2,932	3,320	3,468	3,551	3,444	3,469	3,172	3,157	3,241

Value-added revenue of selected service industries for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Bulgaria	177	242	240	257	235	279	302	330	326	339
Czech Republic	1,905	1,935	1,405	1,279	1,101	1,211	1,245	1,301	1,559	1,433
Denmark	2,364	2,530	2,412	2,620	2,387	2,421	2,379	2,432	2,509	2,571
Finland	1,172	1,148	1,449	1,447	1,484	1,584	1,559	1,603	1,651	1,565
France	29,199	30,138	31,005	31,896	33,371	34,179	33,067	33,017	31,918	32,310
Germany	21,593	22,448	22,565	22,700	21,494	21,583	19,366	18,428	18,135	18,032
Greece	6,128	7,213	7,467	7,006	7,537	7,945	8,557	9,068	9,422	9,882
Hungary	761	823	850	853	723	727	687	616	600	604
Ireland	1,717	1,924	2,148	2,295	2,486	2,703	2,684	2,460	2,706	2,866
Italy	31,548	32,492	33,464	33,359	35,100	35,767	35,785	35,836	35,262	35,721
Netherlands	5,471	5,871	6,237	6,362	6,658	6,639	6,563	6,315	6,371	6,334
Poland	1,229	1,289	1,465	1,720	1,838	1,899	1,846	1,854	1,856	1,906
Portugal	2,102	2,323	2,593	2,723	2,746	2,754	2,830	2,769	2,818	2,896
Romania	911	794	908	833	826	690	723	764	3,373	3,620
Slovakia	252	294	271	248	308	288	273	216	212	209
Spain	37,102	38,558	40,047	42,166	42,722	42,479	43,504	44,308	46,923	48,913
Sweden	2,487	2,714	2,971	3,174	3,330	3,367	3,280	3,256	3,294	3,366
United Kingdom	34,973	38,133	40,032	42,344	42,463	41,806	42,432	44,799	47,531	48,347
Asia	112,161	114,932	117,169	123,371	132,091	140,133	145,419	146,590	150,064	154,483
China	12,303	13,714	16,314	17,626	20,187	21,472	22,745	24,050	25,123	26,345
India	3,427	3,083	3,500	3,907	4,262	4,687	4,830	5,453	6,046	6,386
Indonesia	5,074	5,336	4,596	4,683	4,924	5,201	5,738	6,012	6,437	6,810
Japan	64,158	64,506	65,680	67,242	70,490	75,208	77,445	77,524	78,004	79,315
Malaysia	1,632	1,859	1,758	1,848	2,077	2,207	2,239	2,198	2,156	2,230
Philippines	1,236	1,301	1,603	1,659	1,615	1,626	1,725	1,736	1,857	1,905
Singapore	1,816	1,932	1,793	1,890	2,043	2,032	1,996	1,799	2,022	2,097
South Korea	10,972	11,403	10,089	12,007	13,141	13,956	14,698	14,129	13,810	14,291
Taiwan	4,954	5,420	5,834	6,165	6,615	6,748	6,737	6,731	6,780	7,160
Thailand	6,590	6,378	6,003	6,344	6,737	6,995	7,266	6,958	7,828	7,943
All others	107,949	112,086	115,732	115,777	122,184	125,062	126,208	129,678	135,819	140,613
Retail and wholesale										
All regions/countries/economies	3,230,603	3,381,734	3,468,966	3,550,597	3,671,119	3,798,524	3,861,479	3,982,346	4,128,298	4,294,923
United States	982,976	1,076,691	1,163,840	1,228,319	1,254,118	1,341,721	1,363,340	1,405,116	1,431,512	1,479,643
EU	780,634	798,670	824,746	844,543	874,608	896,640	911,098	922,435	950,738	968,057
Austria	20,939	21,533	21,861	22,488	23,016	23,518	23,922	23,985	24,539	24,890
Belgium	24,121	24,481	23,947	24,008	24,167	24,693	26,128	26,353	27,385	27,647
Bulgaria	854	593	630	780	815	861	908	943	1,004	1,016
Czech Republic	4,472	5,336	5,990	6,383	6,772	7,292	6,735	6,965	7,204	7,903
Denmark	14,761	14,534	15,301	15,768	16,926	16,774	16,962	17,232	17,448	17,714
Finland	8,873	9,455	9,881	10,340	10,531	11,027	11,309	11,897	12,835	13,127
France	101,186	106,090	111,333	115,291	120,416	122,692	122,964	123,865	126,698	128,691
Germany	174,737	172,742	175,763	178,195	183,004	186,540	187,435	188,519	196,504	201,646

Value-added revenue of selected service industries for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Greece	13,558	14,045	14,315	14,295	12,907	14,983	15,279	16,906	17,810	19,920
Hungary	4,014	4,216	4,473	4,427	4,327	4,642	5,053	5,391	5,382	5,319
Ireland.....	6,377	6,930	6,407	6,983	7,715	8,479	9,287	9,191	9,732	10,721
Italy.....	118,998	120,991	123,934	123,683	130,735	134,075	132,754	131,853	130,898	130,294
Netherlands.....	35,322	38,005	40,553	43,389	45,306	44,218	45,159	45,517	46,083	46,079
Poland.....	24,270	26,205	27,064	28,017	29,115	30,481	31,924	32,035	32,854	33,758
Portugal	11,869	12,429	12,873	13,194	13,671	14,083	14,246	13,992	14,540	14,819
Romania.....	3,145	3,074	3,488	3,346	3,260	3,003	3,031	3,159	3,677	2,048
Slovakia.....	1,826	2,224	2,561	2,379	2,614	2,824	2,520	2,642	2,643	2,735
Spain	51,834	53,584	55,516	58,077	59,515	61,475	61,511	62,040	64,738	67,968
Sweden.....	19,467	19,559	20,827	22,167	22,712	23,016	23,616	24,579	24,623	25,612
United Kingdom.....	140,012	142,643	148,028	151,333	157,083	161,963	170,355	175,373	184,141	186,151
Asia.....	1,001,978	1,011,809	976,837	970,938	1,003,025	1,015,794	1,029,926	1,064,114	1,111,088	1,178,507
China	98,943	106,841	111,118	120,066	134,489	144,372	157,286	176,998	189,716	205,248
India.....	43,408	46,004	49,362	54,462	56,985	59,314	64,947	70,486	76,550	84,497
Indonesia	20,940	22,675	18,813	17,731	21,148	21,886	22,785	24,066	25,385	27,676
Japan.....	717,067	711,649	678,128	648,926	650,018	649,488	640,159	644,020	662,304	695,175
Malaysia	10,065	10,570	10,270	10,554	10,515	10,775	11,078	11,311	12,136	12,856
Philippines	7,484	7,822	9,542	10,003	10,514	11,155	10,438	12,530	13,371	13,911
Singapore.....	10,234	10,854	9,565	10,257	11,903	11,601	12,574	13,953	16,139	18,247
South Korea	35,614	34,861	28,680	33,375	37,716	38,675	40,168	38,206	37,608	38,601
Taiwan	38,628	41,523	45,008	48,695	52,262	51,392	53,034	54,394	58,892	62,977
Thailand.....	19,594	19,010	16,352	16,868	17,476	17,137	17,456	18,149	18,988	19,319
All others.....	465,016	494,564	503,544	506,797	539,368	544,370	557,114	590,681	634,960	668,716
Transportation and storage										
All regions/countries/economies	1,149,023	1,185,607	1,201,146	1,220,738	1,248,210	1,253,476	1,261,255	1,278,307	1,340,398	1,385,025
United States.....	255,119	266,619	275,820	287,421	301,622	293,621	300,222	306,222	322,324	335,224
EU	314,262	324,398	333,532	342,611	347,353	350,966	356,652	360,765	369,223	377,874
Austria	9,951	10,239	9,777	9,337	8,769	8,277	8,504	8,604	8,692	8,836
Belgium	9,529	8,945	9,012	9,008	8,910	9,183	9,866	10,375	10,771	10,913
Bulgaria	598	653	678	706	780	888	955	983	999	1,020
Czech Republic	4,027	3,752	3,592	3,189	2,364	2,584	2,821	2,991	2,917	2,951
Denmark.....	8,188	8,174	7,328	8,154	8,204	8,179	8,278	8,887	9,319	9,839
Finland.....	6,810	7,112	7,493	7,645	7,701	7,768	7,844	7,988	8,320	8,296
France.....	40,838	44,143	46,833	48,610	50,065	49,540	50,564	50,754	51,677	51,798
Germany	52,279	54,011	55,392	60,653	62,208	62,645	62,145	62,289	62,370	65,876
Greece	2,940	2,902	2,927	4,286	5,703	5,649	6,141	6,709	7,932	8,263
Hungary	2,182	2,352	2,432	2,445	1,946	2,056	2,141	2,161	2,137	2,220
Ireland.....	2,317	2,518	2,481	2,641	2,900	2,986	2,968	2,837	2,882	2,838
Italy.....	49,203	49,548	50,975	49,187	50,747	52,525	52,555	52,440	52,883	54,115
Netherlands.....	15,128	16,025	16,787	16,410	16,234	16,558	16,335	16,005	16,461	15,725
Poland.....	6,829	6,824	6,714	6,963	7,014	7,261	7,766	8,230	8,462	8,492

Value-added revenue of selected service industries for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Portugal	3,158	3,123	3,438	3,530	3,636	3,675	3,800	3,808	3,935	3,984
Romania.....	2,225	2,142	2,040	1,924	1,955	2,124	2,163	2,350	2,501	1,407
Slovakia	1,573	1,507	1,433	1,690	1,437	1,569	1,480	1,558	1,606	1,596
Spain	30,293	31,206	31,929	31,830	29,399	29,727	31,052	32,146	33,276	34,476
Sweden.....	11,797	12,492	12,403	12,672	12,181	11,516	11,639	11,500	11,448	11,500
United Kingdom.....	54,396	56,733	59,868	61,730	65,200	66,256	67,634	68,148	70,635	73,727
Asia.....	372,301	375,789	367,090	367,016	368,547	373,517	367,299	364,628	388,555	399,024
China	50,979	53,587	57,506	63,347	65,615	68,854	72,644	69,698	81,182	87,045
India.....	21,056	22,037	22,903	25,310	25,843	27,741	28,871	30,589	33,737	35,776
Indonesia	4,997	5,154	3,841	3,358	3,699	3,858	3,933	4,209	4,386	4,409
Japan.....	247,241	245,525	235,047	224,089	220,910	217,687	202,443	199,773	205,102	206,979
Malaysia	3,204	3,367	3,227	3,511	3,390	3,530	3,697	3,766	4,075	4,219
Philippines	2,268	2,398	2,539	2,731	2,743	2,867	3,204	3,351	3,637	3,563
Singapore.....	3,828	4,165	4,427	4,764	5,118	5,280	5,610	5,564	6,005	4,589
South Korea	20,937	20,870	18,975	19,670	21,147	23,231	25,551	26,433	27,786	29,080
Taiwan	10,871	11,426	12,022	13,223	12,549	12,420	12,784	12,418	13,131	13,318
Thailand.....	6,919	7,259	6,605	7,013	7,531	8,050	8,562	8,827	9,514	10,045
All others.....	207,342	218,801	224,703	223,691	230,689	235,371	237,082	246,691	260,296	272,902

EU = European Union

NOTES: Revenue on value-added basis, which excludes purchases of domestic and imported inputs. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Value-added revenue of all high-technology manufacturing industries for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
All regions/countries/economies	450,729	472,923	499,716	526,139	556,920	572,670	593,568	558,580	558,376	575,766	597,828
United States	149,692	153,750	161,171	158,407	163,786	167,811	171,786	158,323	155,805	153,849	159,170
EU	114,602	119,448	121,718	129,370	137,593	141,921	143,968	137,441	134,598	140,856	147,969
Austria	1,821	1,950	2,092	2,190	2,280	2,478	2,480	2,640	2,633	2,622	2,770
Belgium.....	3,730	3,443	3,804	4,096	4,073	4,156	3,876	3,870	3,687	3,682	4,123
Bulgaria.....	255	234	267	386	397	290	285	180	126	132	140
Czech Republic.....	269	260	290	286	277	232	280	315	295	430	539
Denmark.....	1,278	1,463	1,408	1,530	1,545	1,616	1,629	1,802	1,700	1,971	2,049
Finland.....	1,163	1,195	1,385	1,408	1,558	1,686	1,406	1,598	1,775	2,087	2,360
France.....	15,258	15,066	14,151	14,656	15,924	16,356	16,638	16,817	16,126	18,158	22,343
Germany.....	31,985	32,117	32,489	34,161	35,832	37,395	42,318	39,240	35,632	35,883	34,699
Greece.....	330	371	407	372	344	369	391	413	318	311	317
Hungary.....	2,128	2,144	2,205	2,290	2,186	1,887	1,463	1,428	1,712	2,542	3,083
Ireland.....	1,030	1,249	1,590	1,869	2,275	2,580	2,590	2,403	2,292	2,914	5,089
Italy.....	16,314	18,149	18,793	19,689	21,380	21,713	21,276	20,216	20,033	19,367	19,304
Netherlands.....	3,698	4,175	4,082	3,910	3,691	4,190	4,254	4,401	4,768	5,103	4,789
Poland.....	1,666	1,841	1,884	2,140	2,357	1,731	1,007	954	1,066	1,267	1,337
Portugal.....	486	447	451	356	537	549	661	671	677	745	873
Romania.....	479	495	386	380	351	301	207	165	183	187	344
Slovakia.....	191	189	189	187	186	179	129	138	153	182	222
Spain.....	7,352	7,543	7,857	8,531	8,670	8,655	8,098	6,727	7,119	6,503	6,398
Sweden.....	2,897	3,106	3,187	3,298	3,358	3,527	4,626	5,096	5,236	5,595	6,084
United Kingdom.....	22,274	24,015	24,801	27,635	30,371	32,032	30,355	28,365	29,069	31,174	31,108
Asia.....	132,640	142,379	158,905	180,752	195,709	203,294	218,592	205,182	206,567	220,948	232,879
China.....	6,896	6,917	8,404	9,771	10,460	10,563	13,276	14,289	18,253	19,345	18,856
India.....	533	584	825	933	1,160	1,212	1,473	1,598	1,634	1,986	2,025
Indonesia.....	146	160	203	161	188	465	585	794	657	1,043	1,127
Japan.....	113,904	121,387	132,768	150,931	163,204	165,681	174,782	158,043	152,505	160,477	165,980
Malaysia.....	657	769	814	838	1,105	1,534	2,408	2,700	3,172	3,854	4,755
Philippines.....	334	311	309	372	491	695	733	749	875	853	1,201
Singapore.....	3,444	3,397	4,064	4,710	4,983	6,290	6,140	6,485	7,362	8,741	9,602
South Korea.....	2,595	3,648	4,948	6,218	6,484	7,797	8,384	8,808	10,091	12,433	16,621
Taiwan.....	3,925	5,105	6,398	6,534	7,301	8,227	9,098	10,062	11,135	11,223	11,647
Thailand.....	207	101	171	283	334	829	1,714	1,654	882	994	1,066
All others.....	53,795	57,346	57,921	57,610	59,833	59,644	59,223	57,635	61,405	60,113	57,810
Argentina.....	3,692	4,457	3,462	2,865	2,411	2,273	2,438	2,974	1,850	1,971	1,807
Australia.....	1,454	1,405	1,372	1,392	1,510	1,512	1,547	1,660	1,655	1,745	1,879
Brazil.....	17,789	21,195	21,112	19,831	20,310	17,419	16,402	17,337	19,439	19,325	17,145
Canada.....	6,331	6,253	7,635	7,872	8,856	8,875	8,096	8,648	8,384	8,888	9,797
Chile.....	173	164	180	205	251	242	294	353	398	399	429
Costa Rica.....	69	97	93	106	106	95	98	107	123	143	127
Egypt.....	250	210	232	277	257	552	347	305	302	353	434

Value-added revenue of all high-technology manufacturing industries for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Iran	181	211	163	164	220	264	200	232	174	284	282
Israel	3,692	3,594	2,514	2,401	2,016	2,359	2,491	1,635	2,464	2,361	2,700
Mexico	4,419	4,088	4,443	4,769	5,296	6,005	6,867	6,523	7,068	7,141	6,203
Morocco	40	92	40	65	64	73	60	124	123	146	144
Norway	549	619	669	721	859	825	782	832	881	967	1,096
Russia	4,976	4,901	5,312	5,803	6,508	6,710	6,559	3,738	5,413	2,851	2,641
Saudi Arabia	27	33	30	35	39	39	46	53	53	51	50
South Africa	1,009	895	1,207	1,301	1,235	1,120	1,092	1,171	908	1,243	1,302
Switzerland	5,195	5,487	5,291	5,722	5,794	6,664	6,596	7,054	7,127	7,140	7,106
Tunisia	22	15	15	15	41	50	50	48	47	52	46
Turkey	1,262	962	1,204	1,276	1,423	1,772	2,387	1,791	2,078	1,619	1,615
All others	2,666	2,669	2,946	2,788	2,635	2,796	2,872	3,052	2,917	3,433	3,008

EU = European Union

NOTES: High-technology manufacturing industries classified by Organisation for Economic Co-operation and Development and include aerospace, communications equipment, office machinery and computers, pharmaceuticals, and scientific instruments. Value-added revenue excludes purchases of domestic and imported materials and inputs. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Value-added revenue of all high-technology manufacturing industries for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All regions/countries/economies	631,832	687,085	713,152	787,035	883,487	854,163	872,196	969,698	1,104,604	1,201,393
United States	174,737	193,714	229,111	255,662	298,483	299,533	300,731	336,136	375,338	414,209
EU	147,576	158,216	163,736	175,127	186,905	187,902	188,624	196,907	210,145	221,115
Austria	2,645	2,724	2,925	3,296	3,864	3,502	3,571	3,399	3,765	4,108
Belgium.....	3,984	4,336	4,062	4,378	4,740	4,659	4,693	5,510	5,904	6,102
Bulgaria.....	129	114	88	73	89	89	195	212	191	241
Czech Republic.....	609	647	830	1,097	842	1,091	1,284	1,323	1,853	2,074
Denmark	2,181	2,454	2,696	2,996	3,383	3,587	3,767	3,712	3,505	3,827
Finland	2,605	3,095	4,396	5,084	6,587	6,113	7,714	8,678	9,675	10,553
France.....	19,859	25,224	26,436	28,940	32,936	34,028	34,546	35,025	36,551	38,371
Germany	35,667	35,916	38,184	39,882	42,977	42,315	44,797	47,552	52,140	58,200
Greece	345	417	488	475	580	607	585	567	557	538
Hungary	3,749	5,324	1,298	1,242	1,405	1,577	1,697	3,086	4,359	5,460
Ireland.....	4,736	5,471	6,392	7,780	8,295	9,138	10,559	10,667	11,872	12,238
Italy.....	19,497	19,038	19,327	19,833	19,927	20,575	19,504	18,264	18,609	17,685
Netherlands.....	4,131	4,220	4,277	4,520	5,098	4,731	4,073	4,236	4,242	4,180
Poland.....	1,567	1,676	1,754	2,024	1,975	2,000	2,298	2,512	2,895	3,121
Portugal.....	872	862	838	835	849	868	801	988	1,043	1,200
Romania.....	372	343	255	230	215	220	229	291	319	301
Slovakia	244	240	237	219	204	243	258	298	378	521
Spain.....	6,359	6,389	6,472	6,275	6,292	5,673	5,106	5,135	5,123	5,150
Sweden.....	6,750	6,959	8,001	8,049	7,568	6,657	6,620	6,973	7,525	7,707
United Kingdom.....	31,277	32,766	34,781	37,899	39,079	40,229	36,326	38,481	39,638	39,539
Asia	254,354	274,376	260,577	292,001	326,564	299,046	319,104	374,721	453,167	494,490
China	23,264	27,021	29,674	38,549	46,542	55,987	71,828	107,892	157,271	192,990
India.....	2,302	2,418	2,781	3,322	2,838	3,314	3,989	4,264	4,797	5,186
Indonesia	1,757	2,425	1,365	2,121	2,701	2,749	3,883	3,799	4,473	4,683
Japan.....	177,533	187,706	176,005	182,919	193,979	163,709	156,170	173,233	195,307	194,395
Malaysia.....	5,756	6,949	6,248	6,800	8,617	6,951	7,834	8,651	10,478	11,948
Philippines.....	1,104	2,219	1,767	2,049	2,882	3,119	3,312	3,199	3,916	4,193
Singapore.....	10,471	11,105	7,985	10,085	12,876	10,333	11,589	11,915	12,975	14,805
South Korea.....	17,489	18,592	16,696	24,379	32,654	31,358	35,680	36,609	40,769	43,562
Taiwan	13,388	14,752	17,080	20,725	22,185	20,288	23,452	23,605	21,433	20,671
Thailand	1,290	1,189	976	1,052	1,290	1,239	1,366	1,553	1,748	2,055
All others.....	55,165	60,779	59,728	64,245	71,535	67,681	63,737	61,934	65,954	71,578
Argentina	1,918	2,650	2,272	2,073	1,956	2,070	1,314	1,568	1,827	2,153
Australia.....	2,086	2,127	2,156	2,127	2,039	2,283	2,479	2,576	2,536	2,602
Brazil.....	13,185	13,391	11,994	10,928	12,831	13,905	13,343	10,985	11,608	13,411
Canada.....	9,629	10,830	10,673	14,093	15,476	11,365	10,517	10,845	10,929	11,378
Chile.....	385	423	427	406	414	405	420	376	402	457
Costa Rica.....	105	64	62	62	67	70	68	70	77	89
Egypt.....	519	607	508	610	645	797	791	820	808	864

Value-added revenue of all high-technology manufacturing industries for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Iran	305	318	320	276	272	325	238	319	339	423
Israel	2,959	3,503	3,814	4,095	5,748	5,063	4,464	4,417	4,791	4,980
Mexico	7,347	9,157	11,019	12,106	13,002	12,984	12,046	11,009	11,530	12,197
Morocco	151	148	155	117	142	161	169	183	174	173
Norway	1,143	1,009	1,232	1,362	1,264	1,164	1,310	1,209	1,259	1,316
Russia	2,677	2,417	1,814	1,879	1,607	2,335	2,498	2,953	3,493	3,714
Saudi Arabia	50	49	45	47	55	56	56	59	67	79
South Africa	1,121	1,321	889	873	903	868	903	850	956	1,051
Switzerland	6,924	7,572	7,042	7,787	9,661	8,926	7,614	7,765	8,481	9,313
Tunisia	72	75	78	82	80	78	83	77	81	85
Turkey	1,598	2,175	2,303	2,547	2,530	1,986	2,528	2,777	3,209	3,500
All others	2,993	2,942	2,925	2,774	2,844	2,839	2,897	3,076	3,387	3,793

EU = European Union

NOTES: High-technology manufacturing industries classified by Organisation for Economic Co-operation and Development and include aerospace, communications equipment, office machinery and computers, pharmaceuticals, and scientific instruments. Value-added revenue excludes purchases of domestic and imported inputs. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Science and Engineering Indicators 2008

Value-added revenue of high-technology manufacturing industries for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Aerospace											
All regions/countries/economies	103,612	109,376	109,829	105,687	111,461	114,170	115,866	98,023	93,653	79,967	76,977
United States.....	74,649	79,190	79,631	74,462	75,490	76,305	79,957	63,775	59,380	47,270	43,769
EU.....	19,823	20,860	20,202	21,332	25,468	26,975	25,349	22,274	20,069	20,172	20,831
Austria	13	16	16	41	28	20	11	45	45	22	15
Belgium	567	594	599	708	576	626	408	502	350	333	338
Bulgaria	47	42	50	75	79	57	56	38	33	32	35
Czech Republic	101	97	101	99	92	76	47	24	15	45	44
Denmark.....	1	1	3	7	6	7	6	7	0	11	8
Finland.....	81	61	95	84	115	95	102	99	119	126	125
France.....	5,293	4,558	3,666	3,839	4,643	4,814	4,418	4,752	3,763	5,488	7,506
Germany.....	5,614	5,528	5,870	6,100	6,736	6,997	7,208	6,375	6,002	4,895	4,453
Greece.....	91	113	133	140	124	119	114	135	108	108	135
Hungary.....	1	1	1	1	0	0	0	0	1	1	0
Ireland.....	35	43	51	46	49	63	67	87	71	65	76
Italy.....	1,529	1,900	1,675	1,848	2,362	2,398	2,276	1,768	1,508	1,103	1,240
Netherlands.....	134	160	226	230	248	240	240	244	189	171	133
Poland.....	392	396	405	429	476	311	154	134	122	223	153
Portugal.....	1	1	2	2	3	4	3	3	4	70	34
Romania.....	3	3	2	2	2	1	1	1	1	1	1
Slovakia.....	0	0	0	0	0	0	0	0	0	0	0
Spain.....	884	950	832	851	795	754	715	681	595	487	541
Sweden.....	744	771	846	821	698	850	988	1,077	853	576	654
United Kingdom.....	4,292	5,626	5,632	6,011	8,436	9,544	8,534	6,300	6,290	6,414	5,340
Asia.....	2,174	2,087	2,391	2,495	2,284	2,419	2,813	3,356	4,033	3,988	4,188
China.....	328	349	309	400	398	487	573	805	1,192	1,196	1,175
India.....	23	24	30	60	33	30	50	65	61	62	77
Indonesia.....	27	30	36	18	18	13	21	36	29	8	30
Japan.....	1,299	1,179	1,502	1,452	1,419	1,393	1,534	1,807	2,085	2,076	2,259
Malaysia.....	3	2	2	2	3	5	4	4	3	3	5
Philippines.....	5	3	3	5	2	5	5	3	5	4	3
Singapore.....	383	389	391	371	239	275	253	343	396	416	418
South Korea.....	23	26	20	71	42	98	179	116	160	112	87
Taiwan.....	75	84	99	112	114	102	113	104	88	102	123
Thailand.....	7	1	2	4	16	10	82	73	14	9	10
All others.....	6,965	7,239	7,605	7,398	8,218	8,471	7,747	8,618	10,172	8,538	8,188
Pharmaceuticals											
All regions/countries/economies	89,306	95,446	105,008	107,008	112,377	116,940	122,260	124,988	126,799	134,445	135,449
United States.....	27,508	28,883	33,313	31,321	32,578	35,563	37,193	38,430	38,482	42,312	40,430
EU.....	24,120	25,267	26,134	28,034	29,104	30,661	33,091	34,164	34,263	35,729	38,545
Austria.....	235	321	347	440	409	460	505	519	567	586	707
Belgium.....	1,160	1,109	1,521	1,623	1,740	1,635	1,677	1,798	1,842	1,779	2,068

Value-added revenue of high-technology manufacturing industries for selected regions/countries/economies: 1985-95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Bulgaria	45	48	48	62	57	43	38	40	22	31	29
Czech Republic	93	86	90	88	93	72	32	50	49	66	73
Denmark	517	588	560	659	654	753	780	817	756	864	929
Finland	357	284	327	381	421	429	441	406	319	363	337
France	3,948	4,157	4,081	4,341	4,647	4,710	5,010	4,834	4,999	5,099	6,287
Germany	6,598	6,006	6,238	6,610	6,746	7,309	8,550	8,748	8,111	8,654	8,933
Greece	40	47	50	55	57	81	58	56	52	58	54
Hungary	720	746	690	654	570	468	391	343	363	275	278
Ireland	66	100	118	165	239	222	278	358	391	514	775
Italy	3,278	3,899	4,006	4,280	4,422	4,871	4,953	5,324	5,096	5,109	5,248
Netherlands	1,196	1,167	1,038	835	773	826	935	1,003	1,351	1,381	1,497
Poland	338	460	466	580	539	491	319	324	336	384	444
Portugal	159	196	196	162	284	243	323	328	315	308	337
Romania	302	319	244	240	209	181	119	106	111	101	189
Slovakia	113	112	111	109	108	103	70	83	101	132	142
Spain	1,505	1,551	1,555	1,694	1,779	1,870	1,927	1,962	1,941	1,960	2,172
Sweden	701	789	800	856	794	883	1,412	1,789	1,948	2,013	1,845
United Kingdom	2,752	3,282	3,648	4,198	4,562	5,011	5,274	5,275	5,592	6,051	6,202
Asia	18,886	21,104	25,151	28,358	31,006	30,555	32,366	32,388	34,524	36,994	37,911
China	955	1,010	1,357	1,766	1,711	1,658	2,438	2,754	3,684	3,822	3,092
India	321	352	390	422	494	563	662	791	928	1,042	1,129
Indonesia	79	92	132	108	105	197	308	217	262	391	265
Japan	16,022	17,898	21,071	23,306	25,662	24,584	25,061	24,675	25,212	27,048	28,832
Malaysia	28	27	30	34	32	39	47	53	62	66	70
Philippines	202	159	159	193	286	329	357	429	474	419	569
Singapore	389	477	604	750	690	965	1,153	1,023	1,156	1,266	599
South Korea	749	939	1,211	1,513	1,653	1,899	2,004	2,071	2,386	2,506	2,895
Taiwan	108	134	175	230	262	262	269	327	354	375	357
Thailand	33	16	22	36	111	59	69	48	6	60	103
All others	18,792	20,193	20,410	19,296	19,690	20,162	19,610	20,006	19,530	19,410	18,563
Office and computing machinery											
All regions/countries/economies	39,684	44,631	49,571	56,518	60,122	58,949	60,736	54,032	52,474	59,816	65,692
United States	1,625	1,855	2,536	3,152	3,587	3,784	3,732	4,050	4,747	5,869	8,393
EU	10,824	11,368	11,752	12,766	13,201	12,955	13,011	10,095	9,875	10,659	13,538
Austria	47	54	62	62	62	58	62	73	46	40	35
Belgium	35	31	31	34	42	46	45	34	37	42	46
Bulgaria	5	5	5	6	6	6	7	5	4	4	4
Czech Republic	9	9	9	9	9	7	21	46	47	96	127
Denmark	55	66	54	63	64	62	53	71	69	72	67
Finland	72	120	133	111	58	121	56	89	66	53	59
France	499	507	563	663	761	768	814	760	735	805	1,123
Germany	3,318	3,436	3,464	3,642	3,594	3,745	4,380	2,795	2,735	2,658	2,641

Value-added revenue of high-technology manufacturing industries for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Greece	40	36	22	26	25	29	44	42	20	4	2
Hungary	8	8	8	8	8	6	8	6	22	15	11
Ireland.....	711	865	1,097	1,268	1,504	1,738	1,667	1,321	1,138	1,655	3,346
Italy.....	966	998	1,001	1,011	1,041	862	934	1,118	809	755	1,167
Netherlands.....	291	443	364	320	318	337	274	313	269	325	342
Poland.....	57	59	61	66	77	53	29	26	22	33	46
Portugal.....	111	47	64	13	13	25	29	26	26	30	50
Romania.....	8	8	7	7	7	8	4	3	4	3	5
Slovakia.....	6	6	7	6	7	6	5	5	4	4	9
Spain.....	2,987	2,905	2,810	3,172	3,296	2,983	2,433	1,273	1,530	1,051	937
Sweden.....	509	588	591	568	523	277	426	317	244	255	245
United Kingdom.....	1,089	1,178	1,400	1,709	1,787	1,818	1,720	1,773	2,049	2,758	3,276
Asia.....	25,301	29,162	32,785	37,936	40,496	39,355	41,007	36,759	33,964	39,225	39,822
China.....	184	174	229	295	321	408	514	551	664	799	1,385
India.....	11	8	7	11	63	61	92	110	56	128	107
Indonesia.....	0	0	0	0	1	1	1	2	3	3	3
Japan.....	22,867	26,618	29,705	34,159	35,767	33,487	34,496	29,680	26,436	30,283	29,259
Malaysia.....	56	48	50	13	22	151	510	558	758	864	884
Philippines.....	1	1	4	2	6	4	5	7	20	34	57
Singapore.....	1,525	1,374	1,544	1,994	2,659	3,233	3,071	3,259	3,208	3,704	4,074
South Korea.....	83	170	323	458	560	685	647	628	791	1,061	1,539
Taiwan.....	572	768	921	1,003	1,095	1,296	1,597	1,848	1,882	2,346	2,514
Thailand.....	0	0	0	1	1	30	74	116	147	4	1
All others.....	1,935	2,246	2,498	2,664	2,838	2,854	2,985	3,128	3,888	4,063	3,938
Radio, television, and communications equipment											
All regions/countries/economies.....	130,297	136,532	144,730	159,064	170,000	180,055	191,184	182,074	187,553	204,626	218,659
United States.....	16,705	16,351	13,847	14,968	16,473	17,104	16,811	18,422	20,353	24,642	29,844
EU.....	30,282	32,041	33,372	35,555	37,147	37,472	38,468	37,390	38,542	42,062	41,318
Austria.....	1,250	1,276	1,367	1,347	1,461	1,601	1,553	1,662	1,603	1,603	1,628
Belgium.....	1,476	1,301	1,313	1,385	1,420	1,491	1,381	1,195	1,142	1,182	1,257
Bulgaria.....	145	128	153	229	240	173	167	87	58	56	62
Czech Republic.....	21	20	22	22	21	18	91	101	69	79	145
Denmark.....	256	322	322	318	337	340	328	393	352	394	432
Finland.....	318	354	446	434	505	574	402	600	849	1,114	1,374
France.....	1,818	1,957	2,014	2,074	2,230	2,325	2,619	2,650	2,891	2,991	3,544
Germany.....	5,653	5,985	5,971	6,205	6,492	6,658	8,507	7,784	6,896	7,844	6,557
Greece.....	98	120	83	82	96	93	123	129	98	102	78
Hungary.....	1,100	1,085	1,186	1,280	1,240	1,080	824	935	1,187	2,090	2,639
Ireland.....	85	93	142	195	255	279	289	286	301	291	445
Italy.....	7,000	7,588	8,119	8,410	9,314	9,255	9,295	8,648	9,541	9,185	7,795
Netherlands.....	1,691	1,952	2,003	2,054	1,911	2,228	2,249	2,327	2,512	2,762	2,401
Poland.....	462	481	490	553	667	460	261	226	316	366	359

Value-added revenue of high-technology manufacturing industries for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Portugal	144	138	131	121	160	194	211	205	223	220	271
Romania.....	12	13	12	13	16	18	20	8	15	37	75
Slovakia.....	28	27	28	28	28	27	21	19	17	16	25
Spain	1,268	1,371	1,716	1,962	1,823	1,780	1,707	1,423	1,855	1,818	1,646
Sweden.....	629	638	624	739	772	766	1,040	1,143	1,271	1,762	2,075
United Kingdom.....	6,827	7,192	7,232	8,102	8,160	8,112	7,379	7,568	7,345	8,152	8,511
Asia.....	69,261	73,017	82,269	93,105	100,303	109,487	119,153	111,897	113,658	121,947	131,474
China	4,525	4,513	5,614	6,221	6,924	6,885	8,474	8,717	10,228	11,248	11,285
India.....	101	104	173	195	276	327	405	427	391	555	461
Indonesia	26	30	26	23	50	226	233	518	348	599	769
Japan.....	59,035	61,172	67,144	76,369	82,021	88,030	94,058	84,860	83,146	87,187	90,944
Malaysia	416	548	588	632	851	1,151	1,672	1,919	2,190	2,742	3,597
Philippines	122	139	135	168	192	349	356	300	362	374	543
Singapore.....	970	980	1,286	1,367	1,232	1,622	1,434	1,597	2,289	3,021	4,086
South Korea	1,111	1,677	2,357	3,125	3,203	4,104	4,549	4,966	5,670	7,505	10,767
Taiwan	2,910	3,813	4,841	4,798	5,426	6,151	6,671	7,290	8,352	7,891	8,166
Thailand.....	44	42	105	207	127	644	1,301	1,305	683	825	857
All others.....	14,049	15,122	15,242	15,436	16,077	15,992	16,752	14,365	15,000	15,975	16,023
Medical, precision, and optical instruments											
All regions/countries/economies	87,829	86,938	90,578	97,861	102,960	102,556	103,523	99,463	97,897	96,912	101,052
United States.....	29,206	27,471	31,845	34,504	35,658	35,056	34,093	33,646	32,843	33,756	36,734
EU	29,553	29,912	30,258	31,684	32,672	33,858	34,048	33,518	31,850	32,234	33,736
Austria	277	283	300	300	319	339	349	341	373	371	384
Belgium	492	408	340	347	294	357	365	340	316	346	415
Bulgaria	12	11	11	13	14	12	16	10	9	8	9
Czech Republic	45	48	69	68	61	60	89	94	115	145	150
Denmark.....	449	486	469	484	483	455	462	514	523	630	613
Finland.....	335	377	384	397	460	467	405	405	422	430	465
France.....	3,700	3,887	3,826	3,739	3,643	3,739	3,776	3,821	3,738	3,776	3,882
Germany	10,801	11,161	10,947	11,603	12,265	12,686	13,673	13,538	11,887	11,831	12,116
Greece	62	54	119	70	43	47	53	51	39	39	48
Hungary	300	304	321	347	368	332	239	143	140	161	155
Ireland.....	133	147	183	195	228	277	290	351	391	389	447
Italy.....	3,541	3,765	3,993	4,140	4,241	4,328	3,819	3,358	3,079	3,215	3,854
Netherlands.....	385	454	450	471	442	560	556	515	446	464	415
Poland.....	416	445	463	512	598	415	244	243	270	261	334
Portugal	71	65	59	58	77	82	95	108	109	118	180
Romania.....	154	152	120	117	118	94	63	47	53	45	75
Slovakia.....	43	43	44	44	44	42	32	30	30	31	46
Spain	708	765	945	851	976	1,268	1,317	1,389	1,197	1,187	1,103
Sweden.....	315	319	327	314	571	751	758	769	920	989	1,265
United Kingdom.....	7,314	6,738	6,889	7,614	7,426	7,545	7,447	7,450	7,793	7,798	7,780

Appendix table 6-10

(Page 5 of 5)

Value-added revenue of high-technology manufacturing industries for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Asia.....	17,018	17,009	16,309	18,857	21,620	21,478	23,251	20,781	20,388	18,793	19,484
China.....	902	871	894	1,088	1,106	1,125	1,277	1,463	2,485	2,281	1,919
India.....	77	95	225	246	293	232	264	205	198	200	251
Indonesia.....	12	9	9	11	14	27	22	20	14	43	60
Japan.....	14,681	14,518	13,346	15,645	18,336	18,187	19,633	17,022	15,626	13,882	14,685
Malaysia.....	155	145	144	157	196	188	176	166	158	178	199
Philippines.....	3	9	8	4	5	8	10	10	15	22	29
Singapore.....	177	178	240	228	162	195	228	262	314	334	425
South Korea.....	629	836	1,038	1,051	1,026	1,011	1,005	1,028	1,085	1,249	1,332
Taiwan.....	260	307	363	392	404	417	449	493	460	510	488
Thailand.....	122	42	42	36	79	87	188	113	32	96	95
All others.....	12,052	12,546	12,165	12,816	13,010	12,165	12,130	11,519	12,815	12,128	11,099

EU = European Union

NOTES: High-technology manufacturing industries classified by Organisation for Economic Co-operation and Development and include aerospace, communications equipment, office machinery and computers, pharmaceuticals, and scientific instruments. Value-added revenue excludes purchases of domestic and imported materials and inputs. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Science and Engineering Indicators 2008

Value-added revenue of high-technology manufacturing industries for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Aerospace										
All regions/countries/economies	77,735	83,089	93,934	94,889	88,906	95,720	88,039	87,753	86,992	91,773
United States.....	48,659	48,474	57,139	54,973	48,926	52,313	45,706	45,218	42,416	45,316
EU	17,378	21,633	23,577	24,897	23,986	26,033	24,369	24,363	24,514	24,610
Austria	21	32	16	20	17	18	32	35	37	41
Belgium	280	389	448	476	454	477	397	368	417	461
Bulgaria	34	23	18	10	9	3	12	13	16	23
Czech Republic	35	26	47	71	81	90	109	115	116	114
Denmark.....	7	13	5	8	11	12	11	9	9	14
Finland.....	152	162	167	131	110	102	109	104	104	110
France.....	4,360	7,283	6,575	6,637	5,564	6,009	5,005	4,488	3,934	3,810
Germany.....	4,317	4,181	4,757	5,527	4,885	5,776	6,585	7,259	7,229	7,576
Greece.....	180	225	194	193	190	205	226	216	204	201
Hungary.....	0	0	16	23	18	14	15	20	18	12
Ireland.....	97	131	180	177	203	210	162	152	159	157
Italy.....	1,280	1,577	2,403	2,056	2,338	2,583	2,275	2,104	2,112	1,782
Netherlands.....	210	382	418	414	432	404	412	432	448	426
Poland.....	145	131	124	111	182	243	162	141	160	163
Portugal.....	12	27	32	13	18	9	9	9	9	9
Romania.....	1	1	1	1	1	1	2	3	2	2
Slovakia.....	0	0	0	0	0	0	0	0	0	0
Spain.....	527	584	681	694	749	689	704	741	791	828
Sweden.....	579	433	744	658	639	753	668	428	374	203
United Kingdom.....	5,140	6,032	6,752	7,676	8,085	8,433	7,474	7,725	8,374	8,679
Asia.....	5,114	5,791	6,959	8,019	8,211	8,735	9,582	11,059	12,810	14,327
China.....	1,896	2,406	3,129	3,758	4,011	3,169	3,650	4,657	5,380	5,884
India.....	62	86	93	98	65	57	64	70	71	78
Indonesia.....	51	25	6	6	15	12	15	11	26	70
Japan.....	2,430	2,549	3,056	3,280	2,991	3,971	4,266	4,795	5,686	6,347
Malaysia.....	4	5	1	6	8	10	18	21	20	22
Philippines.....	3	4	2	2	3	3	4	4	4	5
Singapore.....	404	426	374	453	474	562	643	599	610	673
South Korea.....	96	117	183	312	400	515	410	336	454	495
Taiwan.....	154	162	95	66	183	349	440	482	453	602
Thailand.....	14	12	20	38	60	87	73	84	105	151
All others.....	6,584	7,190	6,259	7,001	7,783	8,639	8,382	7,114	7,252	7,520
Pharmaceuticals										
All regions/countries/economies	140,356	144,152	144,311	159,885	169,062	182,917	196,332	213,583	224,147	233,753
United States.....	43,437	44,484	45,529	50,678	55,026	60,826	66,920	75,120	78,251	75,294
EU	38,821	39,416	40,543	44,545	47,149	52,745	55,871	59,823	63,941	68,996
Austria.....	669	679	739	769	873	729	903	913	937	1,102
Belgium.....	1,968	1,997	1,893	2,165	2,376	2,546	2,912	3,750	4,066	4,305

Value-added revenue of high-technology manufacturing industries for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Bulgaria	25	23	16	13	13	12	20	24	26	31
Czech Republic	89	74	80	66	68	68	58	61	68	81
Denmark	910	1,069	1,218	1,388	1,659	1,838	2,081	2,010	1,846	2,207
Finland	297	324	326	266	246	238	204	209	177	228
France	5,981	6,539	6,628	7,091	8,392	9,235	9,343	10,309	10,921	12,293
Germany	9,474	8,306	8,045	8,489	8,278	9,245	10,229	10,725	11,925	13,749
Greece	56	70	82	90	127	169	186	196	213	225
Hungary	267	278	402	327	462	476	530	636	672	771
Ireland	885	1,294	1,910	2,428	2,147	2,949	4,490	4,212	5,270	5,214
Italy	5,760	5,825	6,081	6,557	6,702	6,789	6,305	6,542	6,957	6,923
Netherlands	1,079	1,219	1,069	1,248	1,434	1,438	1,223	1,325	1,294	1,348
Poland	472	498	460	467	468	417	559	619	654	654
Portugal	336	310	314	304	306	274	238	255	253	265
Romania	169	127	93	89	102	94	102	124	166	179
Slovakia	138	108	106	141	117	134	140	160	209	249
Spain	2,109	2,280	2,190	2,412	2,402	2,528	2,692	2,831	2,753	2,813
Sweden	1,969	2,039	2,192	2,498	2,769	3,193	3,644	4,292	4,575	4,724
United Kingdom	6,169	6,357	6,697	7,737	8,209	10,373	10,012	10,629	10,960	11,636
Asia	39,971	41,246	39,268	45,982	47,787	49,638	53,471	58,044	60,682	66,484
China	4,211	4,602	4,829	6,152	7,746	8,660	9,619	12,941	13,861	19,037
India	1,303	1,488	1,592	2,011	1,727	2,187	2,991	3,140	3,504	3,975
Indonesia	400	378	259	304	366	386	723	493	523	561
Japan	29,130	29,412	27,414	31,405	31,044	31,144	31,495	32,634	32,929	30,734
Malaysia	66	75	68	79	82	74	81	94	158	265
Philippines	502	901	660	766	916	898	780	718	822	928
Singapore	641	510	845	940	1,206	1,226	1,947	1,921	2,280	2,747
South Korea	3,177	3,234	2,943	3,598	3,899	4,300	5,059	5,271	5,776	7,279
Taiwan	407	458	489	513	541	492	496	518	477	524
Thailand	133	186	170	214	259	272	280	314	354	433
All others	18,128	19,006	18,973	18,680	19,100	19,707	20,069	20,597	21,272	22,978
Office and computing machinery										
All regions/countries/economies	72,699	81,269	88,207	95,403	104,883	101,441	105,791	119,404	142,275	163,520
United States	11,077	15,360	21,807	24,570	29,937	27,981	30,967	31,401	33,213	39,028
EU	12,876	13,559	14,992	15,328	15,173	13,793	13,157	13,885	14,068	13,708
Austria	38	51	52	119	119	125	140	141	132	91
Belgium	56	61	61	56	72	56	40	32	29	40
Bulgaria	6	7	6	5	5	3	7	4	5	4
Czech Republic	108	70	39	82	94	214	323	260	433	643
Denmark	101	69	49	70	111	139	111	150	189	222
Finland	65	73	54	29	4	24	14	16	15	19
France	1,154	1,576	1,818	2,117	2,453	2,576	2,442	2,359	2,452	1,296
Germany	2,748	3,265	3,662	3,730	3,711	2,934	3,126	3,071	3,349	4,379

Value-added revenue of high-technology manufacturing industries for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Greece	1	4	2	2	5	5	9	1	2	1
Hungary	81	229	318	279	211	196	184	214	221	251
Ireland.....	2,549	2,226	2,118	2,201	2,103	1,553	1,533	1,695	1,672	1,607
Italy.....	855	714	775	620	669	624	427	317	350	184
Netherlands.....	326	301	398	363	409	416	323	326	335	308
Poland.....	83	78	96	145	182	93	90	150	165	139
Portugal	77	134	100	131	131	145	120	129	116	98
Romania.....	6	7	5	4	4	5	5	6	6	6
Slovakia.....	7	4	5	8	10	14	13	20	26	36
Spain	1,101	865	1,008	875	605	355	194	125	97	101
Sweden.....	258	262	261	247	232	89	152	161	204	170
United Kingdom.....	3,255	3,562	4,165	4,247	4,041	4,228	3,902	4,709	4,270	4,113
Asia.....	44,759	47,246	45,755	49,524	52,534	52,385	55,746	68,953	89,571	104,924
China	2,834	4,056	6,354	10,171	12,705	18,916	25,116	38,794	59,354	75,220
India.....	79	112	94	114	92	78	73	81	85	51
Indonesia	1	3	3	2	3	4	8	8	13	9
Japan.....	31,112	30,975	29,143	27,491	25,267	20,519	16,613	16,139	16,458	15,288
Malaysia	1,170	1,539	1,322	726	664	510	345	290	270	319
Philippines	50	101	79	82	121	165	133	158	187	119
Singapore.....	4,586	4,930	2,851	3,155	4,018	3,202	3,729	3,686	4,014	4,800
South Korea	1,796	1,851	1,753	2,801	4,111	4,026	4,384	4,564	4,356	4,185
Taiwan	3,130	3,679	4,155	4,980	5,552	4,965	5,346	5,232	4,832	4,931
Thailand.....	1	1	1	1	1	1	1	1	2	2
All others.....	3,987	5,104	5,652	5,981	7,240	7,283	5,921	5,164	5,424	5,859
Radio, television, and communications equipment										
All regions/countries/economies	237,791	271,312	275,222	322,351	396,337	349,010	354,313	410,566	491,956	544,023
United States.....	34,458	47,005	62,711	82,955	120,234	114,289	110,418	133,102	159,515	187,083
EU	43,632	47,638	47,164	51,770	57,643	51,342	49,638	51,916	58,916	63,702
Austria	1,525	1,516	1,629	1,795	2,224	1,963	1,779	1,622	1,906	2,094
Belgium	1,320	1,522	1,286	1,329	1,482	1,232	971	981	966	880
Bulgaria	52	46	38	37	54	63	144	160	130	168
Czech Republic	188	274	481	653	407	461	549	645	966	928
Denmark.....	491	522	523	636	551	539	589	565	391	367
Finland.....	1,571	1,954	3,227	4,039	5,565	5,046	6,728	7,775	8,817	9,649
France.....	4,200	5,055	6,299	7,375	9,873	9,158	9,493	9,645	11,083	12,198
Germany	6,505	7,644	8,552	8,743	10,957	8,988	9,475	10,325	12,356	14,769
Greece	57	65	165	142	207	157	107	74	79	48
Hungary	3,232	4,632	399	438	524	684	764	1,971	3,167	4,142
Ireland.....	655	1,090	1,294	1,924	2,346	2,365	2,318	2,192	2,268	2,437
Italy.....	7,613	6,842	6,046	6,520	5,716	6,065	5,286	4,926	4,902	4,554
Netherlands.....	2,128	1,939	1,996	2,081	2,362	2,027	1,710	1,768	1,789	1,705
Poland.....	426	463	512	625	501	533	859	907	1,133	1,269

Value-added revenue of high-technology manufacturing industries for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Portugal	302	265	248	231	229	263	255	408	474	637
Romania.....	101	120	95	78	44	41	35	41	42	26
Slovakia.....	27	43	40	15	19	35	45	48	65	102
Spain	1,559	1,449	1,347	1,065	1,254	899	647	534	520	469
Sweden.....	2,753	3,038	3,481	3,334	2,570	1,831	536	540	689	873
United Kingdom.....	8,928	9,159	9,507	10,709	10,756	8,992	7,349	6,789	7,174	6,387
Asia.....	143,736	158,531	147,546	166,988	195,058	165,785	178,723	210,536	257,197	274,950
China	12,005	13,785	13,094	16,000	19,199	21,959	29,826	45,483	69,701	83,011
India.....	592	546	668	696	597	577	456	531	678	583
Indonesia	1,242	1,930	1,037	1,709	2,179	2,263	3,060	3,230	3,856	3,974
Japan.....	99,302	108,296	100,607	105,237	118,581	92,884	90,039	104,279	121,435	123,346
Malaysia	4,317	5,097	4,633	5,778	7,528	5,989	7,056	7,884	9,601	10,833
Philippines	522	1,164	989	1,157	1,779	1,982	2,328	2,242	2,807	3,024
Singapore.....	4,388	4,737	3,425	4,870	6,444	4,616	4,466	4,832	5,225	5,698
South Korea	11,108	12,125	10,569	16,321	22,710	20,999	24,306	24,817	28,471	29,978
Taiwan	9,230	9,976	11,831	14,530	15,198	13,771	16,314	16,265	14,371	13,346
Thailand.....	1,029	874	693	690	844	745	872	974	1,052	1,157
All others.....	15,965	18,138	17,801	20,637	23,401	17,595	15,534	15,013	16,327	18,288
Medical, precision, and optical instruments										
All regions/countries/economies	103,251	107,262	111,478	114,507	124,299	125,075	127,721	138,392	159,235	168,324
United States.....	37,106	38,391	41,926	42,486	44,360	44,124	46,720	51,295	61,944	67,488
EU	34,868	35,969	37,459	38,586	42,955	43,989	45,589	46,921	48,705	50,099
Austria	393	446	489	592	631	668	718	687	753	781
Belgium	360	366	373	352	355	347	373	379	426	416
Bulgaria	12	14	10	8	8	7	11	12	15	14
Czech Republic	190	202	183	225	192	258	245	242	270	308
Denmark.....	671	783	900	894	1,050	1,060	976	977	1,071	1,017
Finland.....	520	582	623	620	662	703	658	575	561	546
France.....	4,164	4,771	5,117	5,719	6,654	7,050	8,263	8,225	8,162	8,775
Germany	12,623	12,521	13,168	13,393	15,147	15,372	15,382	16,172	17,280	17,727
Greece.....	51	54	46	48	51	71	57	80	60	64
Hungary	168	184	164	176	190	207	203	245	280	284
Ireland.....	551	729	891	1,051	1,496	2,061	2,055	2,415	2,503	2,822
Italy.....	3,987	4,079	4,022	4,080	4,502	4,514	5,210	4,375	4,288	4,243
Netherlands.....	388	378	395	413	461	446	405	384	376	392
Poland.....	440	507	561	675	642	714	628	696	784	898
Portugal	146	127	144	156	165	177	180	187	191	192
Romania.....	94	88	59	58	63	79	85	117	103	88
Slovakia.....	72	86	86	55	57	60	60	70	78	134
Spain	1,063	1,211	1,247	1,229	1,283	1,202	870	903	961	938
Sweden.....	1,191	1,187	1,323	1,312	1,358	790	1,620	1,551	1,683	1,737
United Kingdom.....	7,785	7,657	7,660	7,530	7,987	8,203	7,590	8,628	8,860	8,723

Value-added revenue of high-technology manufacturing industries for selected regions/countries/economies: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Asia.....	20,775	21,562	21,049	21,489	22,974	22,503	21,581	26,129	32,908	33,804
China	2,317	2,171	2,269	2,468	2,881	3,283	3,618	6,018	8,975	9,839
India.....	265	186	334	402	357	416	405	442	459	498
Indonesia	63	88	61	101	138	84	78	56	57	69
Japan.....	15,559	16,475	15,785	15,506	16,096	15,191	13,758	15,386	18,800	18,680
Malaysia	199	233	224	212	334	368	334	362	428	510
Philippines	27	49	37	41	63	71	68	77	96	116
Singapore.....	452	503	491	668	734	727	804	877	845	887
South Korea	1,311	1,265	1,248	1,346	1,535	1,518	1,522	1,621	1,712	1,624
Taiwan	468	477	511	636	710	711	856	1,109	1,300	1,268
Thailand.....	113	116	92	109	126	134	140	180	236	312
All others.....	10,501	11,340	11,043	11,946	14,011	14,458	13,831	14,047	15,679	16,934

EU = European Union

NOTES: High-technology manufacturing industries classified by Organisation for Economic Co-operation and Development and include aerospace, communications equipment, office machinery and computers, pharmaceuticals, and scientific instruments. Value-added revenue excludes purchases of domestic and imported materials and inputs. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Science and Engineering Indicators 2008

Value-added revenue and exports of non-high-technology manufacturing industries, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Medium-high technology manufacturing industries											
Value-added revenue											
All regions/countries/economies	1,123,494	1,133,009	1,164,902	1,256,616	1,312,255	1,321,862	1,300,956	1,306,500	1,283,338	1,347,078	1,376,766
United States.....	317,801	307,924	319,720	349,480	351,382	338,953	313,382	325,220	340,381	372,409	377,715
EU.....	368,805	387,189	390,244	404,040	425,735	430,648	418,920	417,091	381,129	405,320	411,978
Austria	4,604	4,870	4,686	5,045	4,972	5,385	5,597	5,502	5,394	5,853	5,846
Belgium	11,274	11,118	11,689	12,761	12,393	12,945	12,244	11,544	11,377	11,549	12,519
Czech Republic	3,582	3,295	3,418	3,325	3,068	2,508	1,971	3,799	2,701	3,390	3,793
Denmark.....	4,292	4,417	4,159	4,662	4,663	4,640	4,479	4,704	4,246	4,757	5,106
Finland.....	4,067	4,075	4,517	4,838	4,995	5,042	4,043	3,900	3,881	4,331	4,615
France	31,482	32,251	32,193	34,136	36,076	37,090	37,003	38,480	36,005	39,628	42,912
Germany.....	148,715	152,530	152,438	155,319	168,084	177,820	182,509	180,761	156,317	163,598	156,159
Greece.....	985	1,048	990	966	1,038	1,185	927	973	974	967	1,074
Hungary.....	3,635	3,638	3,773	3,684	3,579	2,960	2,333	2,274	2,960	3,323	3,456
Ireland.....	1,186	1,228	1,307	1,449	1,730	1,834	1,957	2,191	2,288	2,669	3,294
Italy.....	43,399	47,922	48,563	50,402	51,348	49,534	47,839	46,435	43,982	47,171	50,781
Netherlands	10,692	11,618	12,353	12,473	12,970	12,990	12,229	12,007	11,901	13,425	14,136
Poland.....	6,721	7,256	7,393	8,232	9,096	6,560	3,892	4,102	4,497	4,764	5,242
Portugal.....	1,328	1,528	1,638	1,718	2,055	2,076	1,946	2,201	1,969	1,999	2,476
Slovakia.....	1,578	1,582	1,606	1,587	1,589	1,540	1,146	938	671	691	884
Spain.....	15,323	19,343	20,180	19,333	19,945	19,743	20,378	20,229	18,176	19,262	21,037
Sweden.....	9,716	10,002	10,451	10,677	11,069	11,589	11,588	11,881	11,750	13,209	14,195
United Kingdom.....	66,225	69,466	68,890	73,434	77,066	75,206	66,840	65,170	62,040	64,732	64,450
Asia.....	270,332	267,962	284,867	324,954	354,579	379,458	397,118	393,533	391,905	397,258	414,883
China.....	22,585	22,205	23,734	26,488	28,144	27,541	32,782	42,001	56,896	54,146	42,159
India.....	3,377	3,484	3,934	4,204	4,570	5,688	5,604	6,695	7,382	8,071	10,771
Indonesia.....	2,245	2,389	2,733	2,661	3,444	4,651	5,359	6,476	6,411	6,696	6,700
Japan.....	216,761	213,055	223,887	254,494	277,619	294,242	297,826	279,849	264,101	263,747	287,000
Malaysia.....	1,484	1,289	1,403	1,700	2,143	2,489	3,235	3,487	3,627	4,512	5,670
Philippines.....	414	584	525	774	923	1,295	1,337	1,339	1,449	1,285	1,527
Singapore.....	4,590	3,671	3,215	3,887	2,771	3,304	3,522	3,452	3,171	3,542	3,914
South Korea.....	9,201	10,539	12,501	16,261	17,456	19,743	20,916	21,958	23,827	28,781	33,196
Taiwan.....	8,295	10,013	12,078	13,125	13,524	15,259	16,757	18,971	18,070	18,637	17,261
Thailand.....	1,378	734	857	1,358	3,986	5,245	9,779	9,305	6,970	7,840	6,685
Exports											
All regions/countries/economies	768,268	863,190	953,148	1,037,443	1,049,935	1,175,204	1,204,059	1,296,813	1,301,374	1,443,071	1,612,143
United States.....	113,808	114,751	122,954	139,717	136,364	151,438	160,932	167,902	176,434	193,836	208,656
EU.....	184,541	192,429	197,116	203,266	200,431	214,364	213,257	225,625	250,388	274,391	297,193
Austria	11,143	11,972	12,376	11,778	14,123	17,250	17,848	18,715	16,472	18,100	19,011
Belgium.....	27,294	32,043	37,226	40,988	42,389	48,816	48,833	50,590	52,712	62,417	64,163
Czech Republic.....	6,170	7,393	8,428	3,778	3,965	4,261	5,366	6,058	5,211	5,721	7,991
Denmark.....	6,330	6,988	7,469	8,304	8,158	8,995	9,127	9,702	9,081	9,688	10,676

Value-added revenue and exports of non-high-technology manufacturing industries, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Finland.....	3,567	4,248	5,027	4,956	5,440	6,292	5,886	6,375	6,332	7,653	8,242
France.....	48,248	53,979	60,198	67,122	70,463	81,855	84,729	90,862	88,418	98,222	102,051
Germany.....	148,354	166,554	181,887	192,635	199,755	216,777	212,783	223,345	200,323	222,464	242,784
Greece.....	325	358	361	349	498	542	547	689	738	775	1,060
Hungary.....	2,118	2,380	2,598	2,868	2,615	2,685	3,450	3,723	3,656	4,219	4,716
Ireland.....	3,509	3,384	3,715	4,434	4,791	5,150	5,656	6,429	6,422	7,196	8,681
Italy.....	41,557	48,042	53,744	59,678	63,617	68,093	69,459	72,620	78,544	85,455	101,214
Netherlands.....	21,679	27,740	31,854	31,533	31,668	35,903	35,912	36,697	37,405	38,797	43,898
Poland.....	2,781	2,580	2,643	3,262	3,128	3,546	3,053	3,494	3,320	3,969	5,224
Portugal.....	1,380	1,608	2,028	2,353	2,813	3,511	3,372	3,786	3,561	4,104	5,798
Slovakia.....	1,426	1,711	2,011	922	1,000	1,072	1,602	1,768	1,359	2,112	2,387
Spain.....	10,303	11,630	13,659	15,904	16,966	21,046	23,175	27,610	28,950	33,811	39,314
Sweden.....	16,081	18,185	20,140	20,863	19,643	21,184	20,162	20,524	22,522	25,686	24,369
United Kingdom.....	45,137	53,261	60,899	71,969	65,944	76,906	76,855	80,663	76,172	80,922	91,525
Asia.....	155,340	180,131	199,225	218,858	220,024	253,200	275,007	306,220	315,733	346,156	400,175
China.....	7,112	8,277	11,807	21,293	20,276	26,548	33,733	37,696	42,779	48,253	57,610
India.....	632	778	1,008	1,118	1,102	1,577	1,817	2,377	2,531	3,265	4,116
Indonesia.....	337	558	528	710	898	1,119	1,662	1,955	2,211	2,617	3,662
Japan.....	129,424	145,772	152,906	154,746	157,733	177,248	184,466	201,537	196,058	205,806	226,247
Malaysia.....	747	1,184	1,484	1,966	2,493	3,024	4,014	5,095	5,847	7,195	9,183
Philippines.....	319	540	1,052	682	1,046	1,051	1,165	1,282	1,429	1,843	1,977
Singapore.....	5,747	7,506	9,238	12,242	12,378	13,843	14,894	16,108	16,651	20,572	26,284
South Korea.....	3,348	5,341	8,311	9,543	7,644	8,389	9,659	12,404	14,890	19,294	27,791
Taiwan.....	6,767	8,873	11,726	14,710	14,664	18,163	20,543	23,802	27,852	30,389	34,431
Thailand.....	907	1,303	1,165	1,849	1,791	2,239	3,053	3,963	5,486	6,922	8,875
Medium-low technology manufacturing industries											
Value-added revenue											
All regions/countries/economies.....	878,975	920,961	953,661	1,015,335	1,042,095	1,038,299	1,050,359	1,081,298	1,090,570	1,130,619	1,152,209
United States.....	217,780	215,308	226,917	239,052	239,396	227,086	220,540	231,904	248,542	267,885	268,251
EU.....	297,188	315,633	315,017	331,545	340,172	341,982	334,046	336,229	325,041	333,858	340,350
Austria.....	5,720	6,112	5,984	6,380	6,115	6,449	6,142	6,126	6,069	6,783	7,894
Belgium.....	7,490	8,017	7,658	9,179	9,502	9,362	9,188	9,062	8,755	9,053	10,092
Czech Republic.....	5,477	6,495	6,646	6,616	6,116	5,071	3,025	3,127	3,492	4,081	4,263
Denmark.....	3,679	4,274	4,112	3,994	4,240	4,268	4,021	4,326	4,208	4,605	4,761
Finland.....	3,909	3,980	4,262	4,177	4,599	4,410	3,980	3,802	3,977	4,483	4,542
France.....	53,519	50,570	47,384	48,476	49,428	51,118	50,697	52,740	49,270	50,753	53,011
Germany.....	74,415	73,609	73,176	77,165	81,645	85,392	87,709	87,241	83,349	87,217	84,549
Greece.....	2,344	2,679	2,707	3,020	2,970	2,956	2,981	2,954	2,761	2,878	2,965
Hungary.....	1,551	1,534	1,600	1,619	1,507	1,463	1,051	1,367	1,441	1,553	1,645
Ireland.....	619	645	667	722	795	997	924	1,001	975	1,027	1,120
Italy.....	44,964	51,158	52,671	53,947	53,140	55,400	58,355	58,328	56,515	56,299	56,500
Netherlands.....	11,187	11,640	11,985	12,586	12,499	13,191	13,602	13,426	13,429	14,525	13,857

Value-added revenue and exports of non-high-technology manufacturing industries, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Poland.....	11,291	12,191	12,174	13,665	14,582	9,737	5,400	6,229	6,297	6,121	6,464
Portugal.....	1,355	1,842	2,067	2,270	2,149	2,428	2,447	2,542	2,520	2,305	2,606
Slovakia.....	1,031	1,093	1,098	1,102	1,093	1,036	790	831	778	815	1,102
Spain.....	23,692	29,577	30,441	30,234	32,322	32,215	30,876	31,236	28,237	25,379	26,948
Sweden.....	6,326	7,575	6,991	6,882	6,703	7,267	6,855	6,343	6,512	7,269	8,335
United Kingdom.....	38,620	42,641	43,395	49,511	50,768	49,222	46,004	45,549	46,455	48,711	49,696
Asia.....	205,470	221,932	241,696	266,055	280,910	286,256	315,805	327,277	336,096	344,077	352,225
China.....	23,155	26,459	28,157	28,713	27,317	25,688	29,683	33,810	50,642	47,170	45,286
India.....	3,281	3,192	4,130	4,711	4,843	5,393	5,282	6,278	6,896	7,551	8,653
Indonesia.....	1,333	1,256	1,612	1,262	1,618	2,025	2,123	3,263	3,966	3,850	4,293
Japan.....	155,166	165,657	179,540	196,884	205,286	210,552	218,629	221,793	218,755	226,042	230,012
Malaysia.....	881	1,133	1,049	1,243	1,688	1,679	2,188	2,501	3,060	4,385	5,695
Philippines.....	577	724	719	921	921	1,302	1,461	1,623	1,650	1,671	2,252
Singapore.....	2,370	2,288	2,387	2,718	3,268	3,985	4,063	4,177	4,703	5,144	5,244
South Korea.....	7,040	8,718	10,146	12,397	13,157	13,678	17,317	18,725	20,442	20,673	23,065
Taiwan.....	9,076	11,180	12,435	13,550	14,810	14,693	16,258	17,429	17,940	18,649	18,727
Thailand.....	2,591	1,327	1,519	3,656	8,001	7,261	18,801	17,679	8,042	8,943	8,997
Exports											
All regions/countries/economies.....	346,423	383,742	413,830	425,415	441,777	482,435	506,102	552,655	571,635	596,506	649,682
United States.....	25,842	25,782	27,997	31,718	32,680	39,063	44,933	45,354	45,472	46,383	49,849
EU.....	68,403	68,585	70,111	68,891	67,689	71,596	72,688	76,438	85,952	89,588	91,809
Austria.....	6,026	9,006	10,575	6,928	7,284	8,455	8,456	8,839	8,421	9,004	9,243
Belgium.....	16,730	19,768	21,462	23,325	24,134	26,163	26,572	26,828	26,007	28,212	29,511
Czech Republic.....	2,562	3,292	3,668	2,340	2,538	2,718	3,260	3,950	3,866	4,295	5,406
Denmark.....	3,115	3,412	3,926	4,485	4,207	4,838	4,875	5,552	5,202	5,637	5,644
Finland.....	3,333	3,555	3,892	4,030	3,580	4,057	4,772	5,268	5,161	5,379	5,881
France.....	20,980	23,045	23,764	25,741	26,709	30,446	31,333	33,647	32,752	34,857	37,376
Germany.....	39,325	45,582	49,036	49,032	50,665	56,272	57,118	60,544	55,939	59,038	62,636
Greece.....	1,553	1,556	1,712	1,459	2,023	2,017	2,286	2,321	2,410	3,277	2,687
Hungary.....	1,037	1,668	2,017	1,458	1,482	1,596	1,930	1,964	1,875	2,184	2,289
Ireland.....	1,110	1,158	1,267	1,426	1,472	1,646	1,646	1,858	1,504	1,660	1,723
Italy.....	19,249	22,241	23,995	25,759	26,785	30,581	31,617	33,784	37,430	37,357	40,911
Netherlands.....	18,627	22,546	23,791	24,192	23,701	25,697	27,004	26,893	28,705	26,782	28,508
Poland.....	1,969	2,274	2,496	2,232	2,444	2,965	3,939	4,015	4,478	5,371	5,947
Portugal.....	1,022	1,277	1,183	1,302	1,795	2,150	2,102	2,509	2,506	3,090	3,240
Slovakia.....	1,366	3,817	5,305	1,249	1,487	1,288	1,492	1,828	1,650	2,829	3,233
Spain.....	8,916	8,864	9,214	10,561	10,580	11,844	12,663	13,817	15,327	14,922	15,979
Sweden.....	7,793	8,661	9,233	9,273	9,287	9,756	9,945	10,383	11,166	12,053	11,872
United Kingdom.....	17,805	19,780	21,880	24,282	23,454	27,693	29,206	29,196	30,586	30,519	31,371
Asia.....	72,544	73,237	78,228	83,175	87,693	95,769	107,749	121,433	131,608	142,008	158,424
China.....	39,658	37,377	34,920	35,031	35,505	38,183	42,106	45,816	49,333	51,770	54,089
India.....	5,421	6,056	8,098	10,366	11,046	13,088	16,079	20,310	21,112	25,242	33,687

Value-added revenue and exports of non-high-technology manufacturing industries, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Indonesia	10,319	8,389	8,850	9,924	9,432	10,464	13,520	15,592	16,395	16,930	19,521
Japan.....	5,826	7,115	9,320	8,546	8,359	8,972	9,859	11,000	11,904	12,556	13,635
Malaysia	921	1,098	1,610	1,992	2,960	2,825	2,331	2,780	2,906	2,952	3,821
Philippines	1,044	1,415	2,133	1,803	1,392	1,402	1,440	2,104	2,477	2,757	3,278
Singapore	1,273	1,487	1,752	1,725	2,170	2,597	3,187	3,752	3,647	4,380	5,289
South Korea	537	649	747	951	1,311	1,466	1,799	2,066	3,094	3,266	4,301
Taiwan	436	503	687	701	710	774	804	762	935	859	1,024
Thailand.....	7,108	9,148	10,112	12,137	14,808	15,997	16,624	17,250	19,804	21,296	19,779
Low-technology manufacturing industries											
Value-added revenue											
All regions/countries/economies	1,411,220	1,460,147	1,512,776	1,559,395	1,588,834	1,612,660	1,639,594	1,669,168	1,683,061	1,704,940	1,698,628
United States.....	406,537	403,057	423,226	439,302	446,236	447,647	442,586	459,531	464,515	494,133	509,505
EU	405,184	423,843	430,982	441,161	450,932	458,402	463,321	468,275	459,183	461,484	456,308
Austria	7,796	7,851	7,997	8,348	8,693	9,263	9,699	9,761	9,305	9,532	10,002
Belgium	11,755	12,283	12,423	12,447	13,137	13,377	12,916	12,952	12,279	12,332	12,467
Czech Republic	5,891	5,916	5,987	5,743	5,416	4,600	4,470	5,323	3,730	4,617	5,033
Denmark.....	6,315	6,876	6,774	6,770	6,587	6,754	7,069	7,329	7,168	7,666	7,841
Finland.....	7,176	7,360	7,777	8,319	8,257	7,908	6,818	7,211	8,148	8,701	8,801
France	63,525	63,711	62,088	63,609	65,475	67,107	68,380	66,959	65,770	66,199	67,085
Germany	81,895	83,278	83,914	85,167	88,722	94,930	102,023	101,415	99,585	98,004	93,291
Greece	7,200	7,071	6,862	7,106	7,071	6,766	6,668	6,515	6,353	6,227	6,198
Hungary	3,055	2,977	3,072	3,080	2,894	2,713	2,173	2,247	2,290	2,531	2,465
Ireland	2,333	2,618	2,947	3,283	3,616	4,016	3,831	4,247	4,293	4,446	4,719
Italy.....	67,319	71,605	72,799	74,836	74,590	74,198	76,354	77,518	75,850	76,602	73,809
Netherlands	14,535	17,175	17,324	17,352	17,755	18,706	19,221	19,450	20,187	20,898	20,491
Poland.....	12,015	12,553	12,644	12,906	13,541	9,617	7,721	8,689	8,940	7,695	9,010
Portugal	5,033	6,071	6,402	6,553	7,073	7,953	9,115	9,911	9,665	9,455	9,612
Slovakia.....	1,356	1,345	1,353	1,337	1,336	1,295	983	1,037	889	1,089	1,518
Spain	34,168	37,584	38,051	38,328	38,846	39,265	38,754	38,083	35,458	33,835	32,381
Sweden.....	8,951	9,339	9,971	9,822	9,772	10,444	10,336	10,494	10,598	11,617	13,075
United Kingdom.....	64,865	68,230	72,596	76,156	78,150	79,488	76,792	79,134	78,674	80,040	78,510
Asia.....	343,812	371,171	394,318	408,565	417,703	432,872	458,470	456,252	477,523	469,676	453,189
China	29,240	32,188	34,682	37,702	38,283	37,961	42,602	47,925	71,652	68,010	56,567
India	5,235	5,706	5,281	5,892	6,641	7,150	7,316	6,969	8,748	9,428	9,451
Indonesia	1,921	2,327	2,624	3,197	3,857	4,808	4,952	7,090	8,091	9,276	9,520
Japan.....	267,123	288,599	304,696	312,856	311,801	321,751	330,434	324,320	321,080	317,918	312,823
Malaysia	1,830	2,143	2,334	2,582	3,009	3,333	3,398	3,582	4,189	4,643	5,386
Philippines	2,372	2,873	2,869	3,719	4,242	5,442	4,845	4,848	5,139	4,903	5,653
Singapore	1,688	1,546	1,897	1,916	1,811	2,196	2,033	2,094	2,228	2,428	2,346
South Korea	13,017	16,023	18,516	19,608	19,708	20,081	21,496	21,801	21,084	23,062	22,776
Taiwan	14,015	16,044	17,086	16,129	15,696	15,819	16,031	17,258	17,802	16,063	14,344
Thailand.....	7,371	3,722	4,333	4,965	12,655	14,330	25,364	20,365	17,511	13,947	14,323

Appendix table 6-12

(Page 5 of 5)

Value-added revenue and exports of non-high-technology manufacturing industries, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Exports											
All regions/countries/economies.....	504,611	592,924	666,646	727,212	767,136	826,163	867,566	939,887	936,170	1,001,339	1,104,106
United States.....	53,342	64,848	76,677	90,570	95,442	89,183	94,748	101,928	108,891	112,310	114,436
EU.....	99,054	103,019	109,562	116,572	121,979	127,475	123,862	129,753	132,539	146,390	161,847
Austria.....	7,730	8,930	9,165	9,509	9,916	11,580	11,756	12,347	10,783	11,381	13,930
Belgium.....	20,864	25,085	28,493	29,487	32,781	35,633	37,310	38,503	36,493	39,758	41,932
Czech Republic.....	2,641	3,086	3,325	2,253	2,384	2,730	3,362	3,986	3,554	4,081	5,446
Denmark.....	10,872	12,119	12,998	13,779	13,471	14,851	15,610	16,310	15,754	16,928	18,104
Finland.....	8,207	9,164	10,511	10,874	10,689	11,616	11,328	11,869	10,958	12,751	12,772
France.....	29,331	33,021	36,639	40,403	43,433	48,958	49,324	52,929	52,101	55,460	66,831
Germany.....	43,711	50,991	54,602	62,167	66,128	73,014	75,074	77,729	63,985	72,705	71,139
Greece.....	2,599	3,637	4,069	3,303	4,060	4,265	4,400	5,518	4,764	4,425	5,077
Hungary.....	1,811	1,934	2,062	2,183	2,313	2,757	3,939	4,167	3,402	3,949	4,371
Ireland.....	5,320	5,327	6,591	7,090	7,452	7,370	7,926	9,618	9,151	9,841	11,883
Italy.....	40,371	45,479	48,211	49,744	51,471	58,195	58,601	61,175	64,985	68,749	78,066
Netherlands.....	20,226	25,188	27,859	30,548	30,176	34,326	35,717	39,188	40,371	38,725	42,401
Poland.....	2,118	2,675	2,807	3,055	3,135	3,351	3,911	3,805	4,822	6,231	7,715
Portugal.....	5,407	6,340	7,388	8,115	8,536	9,880	10,066	10,676	9,590	10,459	11,320
Slovakia.....	859	1,033	1,116	747	843	951	1,330	1,576	1,198	1,797	2,108
Spain.....	8,699	8,997	9,931	10,375	10,057	11,661	12,200	13,974	14,845	16,607	18,866
Sweden.....	10,258	11,830	13,340	14,479	14,061	14,747	14,476	14,651	13,843	14,205	16,399
United Kingdom.....	24,441	29,238	34,844	38,172	36,877	43,575	42,623	45,007	42,117	46,201	51,366
Asia.....	110,833	133,568	157,998	173,075	184,721	205,004	227,633	252,209	256,668	270,538	299,893
China.....	32,050	40,301	50,167	58,870	66,727	74,047	84,023	97,168	100,051	109,062	118,303
India.....	5,444	6,015	7,329	7,647	8,190	8,806	9,367	10,664	12,510	14,258	17,706
Indonesia.....	4,630	6,210	8,046	9,302	10,152	12,011	14,640	18,486	20,427	20,409	22,144
Japan.....	22,161	23,381	23,043	23,146	23,689	27,230	27,997	30,129	28,757	27,110	28,564
Malaysia.....	2,816	3,434	4,083	4,591	5,443	6,353	7,298	8,748	9,345	10,671	13,177
Philippines.....	2,350	2,914	3,466	3,919	4,612	5,364	5,679	5,768	5,879	5,925	6,852
Singapore.....	5,783	6,971	8,436	9,772	9,160	9,966	10,522	10,985	10,699	11,079	14,720
South Korea.....	10,701	13,965	17,558	18,974	18,541	19,383	21,396	22,011	21,491	22,843	25,690
Taiwan.....	20,195	25,420	29,482	28,467	27,920	28,493	30,736	31,063	30,143	30,563	31,258
Thailand.....	4,703	4,957	6,387	8,387	10,285	13,351	15,975	17,188	17,366	18,619	21,481

EU = European Union

NOTES: Manufacturing industries classified by Organisation for Economic Co-operation and Development based on average R&D intensity of manufacturing industry. Value-added revenue excludes purchases of domestic and imported materials and inputs. EU excludes Bulgaria, Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, Romania, and Slovenia. EU exports exclude intra-EU exports. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Value-added revenue and exports of non-high-technology manufacturing industries, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Medium-high technology manufacturing industries										
Value-added revenue										
All regions/countries/economies.....	1,391,162	1,433,505	1,428,221	1,425,623	1,470,410	1,422,203	1,501,561	1,530,524	1,627,695	1,681,655
United States.....	366,447	372,847	381,613	371,584	378,328	347,210	380,487	369,157	380,782	384,826
EU.....	415,250	432,769	446,460	438,736	441,709	443,344	453,523	452,422	466,769	473,466
Austria.....	6,218	6,842	7,717	8,657	9,199	9,191	9,091	9,349	10,102	10,543
Belgium.....	12,721	13,070	13,557	12,871	12,723	12,401	13,032	12,532	13,574	13,332
Czech Republic.....	4,795	4,338	4,510	4,497	4,334	4,518	4,638	4,780	5,293	6,065
Denmark.....	4,952	5,521	5,842	5,339	5,533	5,758	5,790	5,641	5,903	6,057
Finland.....	4,672	4,794	5,133	4,977	5,379	5,671	5,065	4,968	5,136	5,586
France.....	43,713	47,111	51,078	53,849	57,218	56,955	57,616	56,402	56,310	55,357
Germany.....	154,802	161,376	167,046	161,459	162,829	167,228	170,533	172,795	180,902	186,559
Greece.....	1,123	1,097	1,200	1,226	1,297	1,177	1,096	1,128	1,137	1,146
Hungary.....	3,606	3,463	3,171	3,232	3,066	3,492	4,619	3,940	4,184	4,500
Ireland.....	3,809	5,537	8,061	8,774	9,457	12,640	15,950	16,380	13,796	13,883
Italy.....	51,828	54,129	53,985	52,612	52,949	50,864	51,982	49,258	49,777	48,699
Netherlands.....	13,585	14,174	14,394	14,295	14,139	14,024	14,193	13,578	13,913	13,938
Poland.....	5,837	5,509	5,689	5,530	5,904	5,518	5,406	6,244	7,505	8,229
Portugal.....	2,895	2,950	2,896	2,978	2,724	2,843	2,846	2,915	2,860	2,582
Slovakia.....	912	990	1,126	1,078	1,106	1,217	1,225	1,439	1,642	2,134
Spain.....	21,362	24,003	25,608	25,129	24,485	23,729	24,120	24,254	24,925	24,237
Sweden.....	14,378	14,880	14,427	14,789	15,415	13,343	14,161	15,188	15,727	16,112
United Kingdom.....	64,041	62,985	61,019	57,446	53,951	52,776	52,159	51,631	54,083	54,506
Asia.....	438,393	446,228	421,220	434,560	457,547	440,413	481,666	522,138	582,736	616,871
China.....	48,993	48,648	47,518	48,203	56,990	63,727	78,339	102,630	116,172	131,942
India.....	10,165	9,733	13,514	14,800	12,985	13,276	14,386	15,766	18,949	21,620
Indonesia.....	8,690	8,434	4,696	4,740	6,582	7,168	7,601	10,443	16,102	15,964
Japan.....	297,611	305,456	297,526	302,665	308,212	286,241	304,514	311,368	338,266	348,290
Malaysia.....	5,809	6,093	3,713	4,594	5,358	5,836	6,331	6,837	7,383	7,446
Philippines.....	1,417	2,557	1,938	2,401	3,061	3,332	3,264	3,204	3,793	4,447
Singapore.....	4,222	4,429	3,062	3,082	3,744	3,308	4,231	4,652	4,892	5,549
South Korea.....	35,096	34,135	24,830	29,300	35,845	33,895	37,446	39,316	44,920	48,175
Taiwan.....	18,663	19,585	19,484	18,453	16,763	15,030	16,129	15,775	17,204	17,374
Thailand.....	7,727	7,158	4,938	6,323	8,008	8,599	9,425	12,146	15,056	16,063
Exports										
All regions/countries/economies.....	1,673,072	1,757,029	1,773,256	1,830,178	1,961,873	1,958,691	2,055,608	2,367,791	2,667,343	2,833,380
United States.....	218,827	247,117	249,560	252,121	282,171	264,641	258,115	262,016	294,206	315,089
EU.....	289,393	301,425	283,653	283,912	315,595	330,660	340,236	378,935	416,827	442,867
Austria.....	22,059	21,577	22,489	22,667	23,157	26,406	27,971	32,220	35,418	38,128
Belgium.....	64,486	67,891	71,476	74,543	73,942	80,817	84,132	94,154	102,334	104,191
Czech Republic.....	8,284	9,967	12,413	12,338	14,190	15,715	16,537	19,993	22,989	25,483
Denmark.....	10,478	11,340	11,247	11,498	11,727	12,767	13,545	14,873	15,391	16,049

Value-added revenue and exports of non-high-technology manufacturing industries, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Finland.....	8,736	9,382	10,079	10,096	11,294	12,100	12,227	13,074	14,297	15,508
France.....	104,207	105,389	112,147	116,100	121,864	126,817	133,452	148,017	157,595	161,284
Germany.....	253,596	259,833	263,158	266,892	280,368	299,454	308,043	349,926	388,984	402,676
Greece.....	1,106	1,176	1,228	1,296	1,329	1,351	1,465	1,806	1,883	2,058
Hungary.....	4,559	7,413	9,124	10,773	11,399	11,789	11,450	12,958	13,969	15,311
Ireland.....	10,339	12,988	16,626	18,780	20,041	21,071	23,833	29,520	30,870	32,920
Italy.....	102,991	99,931	96,904	95,696	96,829	95,891	94,690	104,108	110,686	111,850
Netherlands.....	44,651	50,192	47,834	46,701	47,635	44,843	47,073	53,832	58,979	62,147
Poland.....	5,764	6,482	7,178	7,595	10,400	10,815	12,469	16,649	19,201	21,827
Portugal.....	6,600	7,163	7,447	7,658	8,024	7,642	8,119	9,244	9,754	10,015
Slovakia.....	2,647	3,405	4,511	4,650	5,298	5,345	6,072	9,392	10,477	10,452
Spain.....	42,600	44,334	47,246	50,089	51,889	52,998	53,756	63,523	67,154	67,961
Sweden.....	25,297	25,923	28,903	27,796	29,106	30,687	32,041	37,462	39,920	40,705
United Kingdom.....	98,486	101,764	101,342	99,078	98,140	101,631	102,946	115,872	124,993	126,687
Asia.....	406,833	422,675	401,921	430,784	492,173	464,285	522,967	668,080	804,913	892,866
China.....	59,531	64,139	62,886	71,543	88,942	92,944	113,419	154,170	196,338	237,729
India.....	4,703	4,719	4,625	5,354	6,814	7,260	8,883	11,778	13,613	16,024
Indonesia.....	4,256	4,408	6,115	5,176	6,499	6,174	6,629	7,838	8,846	10,626
Japan.....	225,565	235,244	219,476	227,634	247,247	215,904	235,681	291,359	350,232	371,460
Malaysia.....	9,777	9,662	10,353	10,751	12,246	11,977	12,781	15,855	18,695	22,418
Philippines.....	2,429	2,900	3,048	2,899	3,681	3,806	4,223	4,903	5,902	6,211
Singapore.....	26,141	24,454	18,966	20,768	23,555	22,081	22,965	29,315	34,281	38,191
South Korea.....	31,126	33,706	34,371	39,581	47,939	50,165	58,161	78,657	91,953	98,811
Taiwan.....	34,719	33,779	31,768	34,244	39,748	38,692	43,498	52,422	60,590	65,122
Thailand.....	8,587	9,665	10,313	12,835	15,501	15,283	16,729	21,783	24,463	26,274
Medium-low technology manufacturing industries										
Value-added revenue										
All regions/countries/economies.....	1,189,744	1,231,994	1,251,352	1,264,783	1,296,859	1,271,965	1,290,231	1,333,072	1,423,361	1,458,828
United States.....	282,381	300,498	309,905	313,385	316,827	289,840	297,790	293,959	325,796	321,230
EU.....	339,901	346,230	368,482	357,682	356,904	358,197	353,544	356,360	367,133	367,644
Austria.....	7,882	8,571	8,781	9,065	9,856	9,847	9,868	10,289	11,055	11,554
Belgium.....	10,160	10,621	11,080	10,503	10,736	10,410	10,708	10,967	11,201	10,578
Czech Republic.....	4,647	4,265	4,061	4,215	3,780	3,719	3,674	4,115	4,427	4,847
Denmark.....	4,601	4,948	5,192	4,940	4,901	4,861	4,827	4,801	4,936	5,021
Finland.....	4,545	4,822	5,473	4,929	5,298	5,566	5,421	5,469	5,866	5,868
France.....	53,755	53,558	55,379	56,446	56,720	58,834	56,705	57,173	55,721	55,783
Germany.....	84,809	85,458	92,557	90,376	89,800	90,689	90,367	90,217	94,699	95,091
Greece.....	2,927	2,861	3,393	3,275	3,660	3,764	3,844	3,914	3,954	4,055
Hungary.....	1,528	1,770	2,260	2,251	2,296	2,373	2,681	3,101	3,446	3,624
Ireland.....	1,169	1,339	1,653	1,628	1,685	1,842	1,686	1,673	1,703	1,652
Italy.....	55,862	55,571	59,297	55,181	53,276	54,193	51,860	52,281	52,813	52,706
Netherlands.....	13,089	12,364	14,384	12,828	12,539	12,894	12,635	12,964	13,362	13,323

Value-added revenue and exports of non-high-technology manufacturing industries, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Poland.....	6,487	6,886	7,536	7,411	8,088	7,560	7,953	9,116	10,727	11,357
Portugal.....	3,023	3,276	3,561	3,472	3,309	3,319	3,480	3,305	3,321	3,569
Slovakia.....	1,138	1,209	1,398	1,157	1,272	1,480	1,491	1,703	1,997	2,099
Spain.....	26,386	28,120	29,597	28,423	28,749	27,938	28,870	28,747	29,429	29,450
Sweden.....	8,352	8,976	9,411	8,972	9,223	9,479	9,136	9,355	9,338	9,310
United Kingdom.....	49,541	51,616	53,467	52,610	51,715	49,429	48,337	47,169	49,139	47,756
Asia.....	368,377	378,420	355,948	374,521	395,372	393,710	411,869	447,355	481,432	514,145
China.....	51,642	53,694	51,183	56,732	62,596	69,998	84,507	107,694	129,781	155,216
India.....	8,929	8,713	11,923	12,941	10,796	10,857	14,429	15,619	16,799	19,097
Indonesia.....	5,354	3,614	2,359	2,879	4,073	4,135	3,800	3,822	4,233	4,475
Japan.....	232,158	232,849	214,263	218,657	228,121	217,241	212,598	218,568	219,397	219,897
Malaysia.....	6,228	7,052	5,821	5,753	7,597	7,405	8,286	9,166	9,943	10,486
Philippines.....	1,799	3,167	2,539	2,612	4,098	4,548	4,084	4,445	4,933	5,313
Singapore.....	5,111	5,041	3,665	4,194	3,977	3,587	3,751	3,675	3,779	4,385
South Korea.....	25,314	29,340	29,180	34,004	37,601	38,520	40,736	43,749	47,627	49,939
Taiwan.....	19,991	21,637	23,484	24,104	23,027	23,161	24,953	24,269	26,433	26,080
Thailand.....	11,851	13,313	11,530	12,645	13,487	14,259	14,724	16,346	18,507	19,256
Exports										
All regions/countries/economies.....	662,375	697,367	720,493	730,402	733,079	747,932	779,179	883,805	975,035	1,020,280
United States.....	53,512	59,413	60,643	60,879	66,745	64,111	62,380	62,763	64,078	66,979
EU.....	92,388	95,966	95,136	89,900	94,593	94,970	97,097	107,133	118,405	126,400
Austria.....	9,851	9,323	11,037	9,921	9,682	10,286	10,493	12,601	13,709	14,126
Belgium.....	28,772	28,911	31,534	31,838	31,480	31,811	31,952	34,924	38,568	38,540
Czech Republic.....	5,176	5,224	6,239	6,171	6,519	7,124	7,677	9,082	11,158	12,474
Denmark.....	5,678	5,588	5,658	6,071	5,519	5,474	5,995	6,444	6,527	6,857
Finland.....	6,240	6,162	6,792	6,692	6,974	6,823	7,718	9,116	9,555	9,743
France.....	37,951	37,339	40,422	39,035	40,262	40,142	40,476	44,882	46,751	46,362
Germany.....	62,175	63,557	70,155	70,679	68,709	73,994	76,567	84,395	96,584	99,049
Greece.....	2,846	2,720	2,919	2,957	2,897	2,763	2,719	2,717	2,894	3,040
Hungary.....	2,230	2,304	2,737	2,720	2,636	2,862	2,932	3,321	3,785	4,105
Ireland.....	1,714	1,776	1,807	1,678	1,644	1,624	1,730	1,701	1,711	1,690
Italy.....	41,317	40,704	42,740	39,832	40,390	40,667	40,859	44,536	47,014	46,404
Netherlands.....	27,433	28,463	28,048	29,325	27,619	28,162	27,676	29,509	31,412	32,605
Poland.....	6,197	5,612	7,037	6,874	7,582	8,546	9,716	11,372	13,306	14,796
Portugal.....	2,735	2,945	3,045	3,158	3,155	3,155	3,535	4,285	4,569	4,470
Slovakia.....	2,264	3,117	3,289	3,058	3,274	3,633	3,904	4,753	5,240	5,599
Spain.....	17,367	18,646	18,959	19,412	19,579	19,406	19,904	23,398	24,973	24,803
Sweden.....	12,250	12,526	12,841	12,609	12,762	13,064	13,719	15,292	16,769	16,776
United Kingdom.....	32,639	34,373	32,702	30,630	30,557	30,801	30,882	34,362	35,882	36,238
Asia.....	160,554	173,273	183,567	183,089	191,484	186,441	209,667	247,671	284,249	309,470
China.....	51,149	53,414	52,212	52,302	53,747	47,775	51,407	58,300	62,619	63,847
India.....	34,644	40,208	39,931	40,089	46,242	47,484	56,481	72,984	91,683	109,226

Value-added revenue and exports of non-high-technology manufacturing industries, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Indonesia	22,080	26,215	37,100	33,002	33,032	35,799	36,309	39,836	46,273	49,545
Japan.....	14,238	15,506	15,999	17,435	19,141	17,942	19,974	23,389	25,208	24,545
Malaysia	3,944	4,389	4,574	5,168	5,397	4,933	5,479	6,391	6,834	7,354
Philippines	3,298	3,685	3,194	3,717	4,867	5,662	9,777	12,316	13,646	15,251
Singapore	5,583	5,837	5,798	6,174	6,098	6,917	7,076	7,884	8,977	9,818
South Korea	4,189	4,850	4,672	5,419	6,166	6,115	6,409	7,848	8,585	9,073
Taiwan	1,272	1,386	1,052	1,405	1,402	1,417	1,476	1,825	1,945	2,276
Thailand.....	20,156	17,784	19,035	18,379	15,391	12,396	15,280	16,899	18,477	18,534
Low-technology manufacturing industries										
Value-added revenue										
All regions/countries/economies	1,721,216	1,748,883	1,746,362	1,799,157	1,830,966	1,783,205	1,776,242	1,808,679	1,885,702	1,953,425
United States.....	511,372	521,178	525,366	548,995	549,314	523,450	516,418	532,747	559,444	592,391
EU	457,876	470,630	482,719	492,798	490,424	485,558	486,937	484,412	488,906	488,716
Austria	10,096	10,567	11,037	11,673	12,434	12,618	12,468	12,725	13,368	13,500
Belgium	12,180	12,433	12,530	13,099	12,432	12,246	12,990	13,096	13,471	13,438
Czech Republic	4,836	5,474	4,771	5,124	4,499	4,161	4,317	4,340	4,398	4,532
Denmark.....	7,905	8,553	8,480	8,642	8,632	8,228	8,493	8,892	8,859	8,810
Finland.....	8,143	8,839	9,787	9,765	10,501	10,233	10,001	9,534	9,695	9,104
France	66,761	68,193	69,668	69,106	69,063	69,387	69,288	69,223	69,113	71,095
Germany	93,581	92,767	94,637	96,066	94,407	89,373	88,788	86,657	88,546	89,787
Greece	6,148	6,091	6,545	6,487	6,613	6,530	6,385	6,548	6,521	6,385
Hungary	2,423	2,627	2,711	2,988	2,953	3,242	3,384	3,332	3,488	3,499
Ireland	5,158	6,118	7,218	8,169	8,101	9,043	10,176	10,365	11,471	12,033
Italy.....	74,599	76,499	77,934	77,703	76,974	78,742	77,923	77,904	77,961	75,324
Netherlands	20,392	20,999	21,730	22,990	22,988	23,088	24,133	24,201	24,281	24,538
Poland.....	9,870	10,574	11,245	12,851	12,656	11,922	11,866	12,927	14,281	14,650
Portugal	10,151	10,232	10,514	10,767	10,289	10,590	10,849	10,567	10,417	10,013
Slovakia.....	1,519	1,405	1,617	2,030	1,637	1,879	1,679	1,686	1,459	1,781
Spain	31,439	33,508	35,105	36,221	35,565	34,193	34,984	34,270	34,319	34,249
Sweden.....	13,130	13,458	13,906	14,396	15,127	14,933	14,818	15,422	15,497	15,464
United Kingdom.....	79,547	82,294	83,283	84,721	85,553	85,150	84,396	82,722	81,761	80,516
Asia.....	474,327	477,206	452,870	469,146	491,237	470,809	477,377	496,240	533,281	559,139
China	72,369	73,944	66,971	69,781	77,453	84,108	97,081	115,008	148,332	175,342
India	10,603	10,323	11,447	12,437	12,341	11,891	12,251	12,873	13,425	14,419
Indonesia	11,647	10,942	10,427	11,188	13,156	12,274	13,367	12,914	12,303	12,280
Japan.....	313,592	311,817	299,129	303,642	309,733	283,031	273,473	274,178	273,742	270,621
Malaysia	5,483	5,476	4,849	5,559	6,341	6,291	6,509	6,925	7,362	7,760
Philippines	4,988	8,713	7,004	7,329	9,558	10,443	10,726	9,990	11,204	12,227
Singapore	2,311	2,325	1,672	2,075	1,977	1,737	1,646	1,786	1,644	1,895
South Korea	22,898	22,157	20,084	24,788	27,644	27,151	28,404	27,084	27,830	27,349
Taiwan	15,209	15,458	15,348	14,995	14,928	14,568	14,058	13,340	13,114	12,637
Thailand.....	15,227	16,051	15,939	17,352	18,106	19,316	19,861	22,141	24,323	24,608

Value-added revenue and exports of non-high-technology manufacturing industries, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Exports										
All regions/countries/economies.....	1,141,736	1,189,175	1,189,311	1,230,864	1,263,889	1,287,530	1,332,494	1,490,715	1,635,393	1,716,027
United States.....	121,385	129,428	130,143	130,619	141,167	138,109	129,106	129,847	134,534	144,516
EU.....	165,288	174,837	170,612	172,974	186,587	182,347	189,311	189,339	201,682	213,895
Austria.....	12,975	14,440	16,519	17,161	15,664	15,542	17,025	22,984	25,244	26,353
Belgium.....	42,771	46,070	49,891	53,292	53,257	52,979	54,290	58,549	64,982	67,480
Czech Republic.....	4,978	5,045	6,043	5,792	6,226	6,774	7,058	8,092	9,226	10,166
Denmark.....	17,707	18,645	18,960	19,073	18,377	19,149	21,713	22,844	23,749	24,901
Finland.....	11,990	13,116	14,126	13,923	13,782	13,227	14,450	16,108	17,052	17,341
France.....	60,195	65,614	67,683	69,085	70,547	63,529	66,063	72,277	75,681	75,903
Germany.....	73,345	72,451	87,373	91,140	78,494	90,280	93,764	109,588	126,747	130,020
Greece.....	5,284	4,889	4,659	4,919	4,477	4,339	4,372	5,091	5,121	5,417
Hungary.....	4,997	4,765	5,384	5,779	5,409	6,016	6,125	6,032	6,699	7,386
Ireland.....	11,371	10,439	10,975	11,525	11,266	11,542	11,952	14,131	14,764	15,081
Italy.....	81,015	77,627	76,474	74,357	76,250	78,386	78,197	84,111	88,563	88,390
Netherlands.....	41,227	46,076	40,465	44,050	41,872	41,017	41,649	48,114	52,442	55,228
Poland.....	8,515	9,563	9,619	9,919	10,083	10,966	11,287	14,008	16,060	18,125
Portugal.....	11,119	11,369	11,475	11,407	11,130	11,443	11,855	12,936	13,605	13,993
Slovakia.....	1,868	2,158	2,259	2,260	2,540	2,875	3,197	3,997	4,512	4,777
Spain.....	21,297	24,247	24,907	26,171	26,932	29,530	31,285	33,944	36,666	37,228
Sweden.....	17,174	17,798	19,066	18,314	17,820	19,529	21,505	24,782	28,027	27,317
United Kingdom.....	53,620	55,019	52,767	52,705	52,916	52,436	54,535	59,142	59,977	60,730
Asia.....	314,339	323,459	299,679	321,430	348,408	352,907	380,454	442,916	503,187	544,774
China.....	124,187	134,411	126,113	127,772	143,819	150,121	170,294	210,812	245,957	275,999
India.....	18,723	18,747	19,095	22,692	24,409	25,340	29,205	32,796	36,610	40,012
Indonesia.....	24,117	22,968	18,259	21,777	22,522	22,265	23,501	24,266	25,515	28,735
Japan.....	31,618	34,927	35,235	40,031	42,366	41,208	42,739	47,971	54,666	55,994
Malaysia.....	14,098	13,557	12,259	13,734	15,018	15,363	16,639	18,413	20,781	23,509
Philippines.....	6,157	6,068	5,435	4,572	5,163	5,777	5,459	6,044	6,441	6,760
Singapore.....	15,884	15,492	12,290	12,053	13,075	13,837	13,462	15,325	17,810	18,925
South Korea.....	29,131	29,921	25,271	31,514	31,428	29,058	28,746	32,406	36,348	36,285
Taiwan.....	30,933	28,313	27,347	27,738	29,209	27,834	28,089	29,553	31,917	30,550
Thailand.....	19,490	19,056	18,375	19,549	21,399	22,104	22,319	25,330	27,141	28,005

EU = European Union

NOTES: Manufacturing industries classified by Organisation for Economic Co-operation and Development based on average R&D intensity of manufacturing industry. Value-added revenue excludes purchases of domestic and imported materials and inputs. EU excludes Bulgaria, Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, Romania, and Slovenia. EU exports exclude intra-EU exports. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Exports, imports, and gross revenue of high-technology manufacturing industries, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Exports											
All regions/countries/economies	225,951	262,842	299,514	349,234	367,207	424,736	471,015	512,773	534,627	618,858	746,653
United States	52,334	58,556	64,610	79,287	78,946	90,474	98,696	104,682	107,352	121,071	136,953
EU	42,610	46,993	49,717	56,176	57,961	60,588	68,202	73,764	83,661	91,442	108,131
Austria	2,295	2,664	2,924	2,487	3,284	4,185	4,305	4,205	3,262	4,280	3,855
Belgium	3,302	4,453	5,296	5,323	5,564	6,523	7,183	7,988	9,271	10,211	11,172
Bulgaria	97	122	133	159	178	137	138	88	66	81	79
Czech Republic	527	687	838	337	368	402	484	625	599	744	818
Denmark	2,070	2,473	2,926	3,237	3,367	3,922	3,874	4,273	3,860	4,616	5,028
Finland	576	759	947	912	1,064	1,328	1,368	1,687	2,106	2,936	3,777
France	11,730	12,191	15,127	18,338	19,945	22,761	27,794	29,810	30,924	33,254	40,035
Germany	25,896	27,657	31,401	36,316	39,516	41,832	46,110	47,656	44,291	49,293	53,104
Greece	74	82	83	119	137	143	161	139	217	213	287
Hungary	945	1,226	1,245	1,280	900	1,009	1,529	828	833	1,218	1,060
Ireland	2,909	2,658	3,237	3,681	4,261	4,463	4,881	5,571	6,061	6,729	10,761
Italy	7,135	7,888	8,847	10,461	11,009	12,825	12,936	14,736	15,480	16,247	18,834
Netherlands	6,399	8,483	9,503	8,872	9,662	11,875	12,426	14,086	16,958	17,319	21,333
Poland	333	359	384	433	441	470	470	402	479	586	726
Portugal	447	440	498	490	579	752	735	871	774	969	1,390
Romania	38	85	62	57	152	79	39	44	67	106	100
Slovakia	172	225	275	83	102	110	170	178	199	355	359
Spain	1,120	1,327	1,622	2,437	2,552	3,040	3,544	4,032	5,074	5,734	5,678
Sweden	3,221	3,553	3,879	4,672	4,946	5,615	6,077	6,681	8,079	9,342	11,451
United Kingdom	17,853	22,336	23,298	30,431	30,162	34,201	36,457	36,802	38,335	41,847	50,967
Asia	70,107	85,528	100,859	117,748	124,188	147,724	167,947	189,629	202,411	247,423	315,286
China	5,811	7,018	9,818	14,973	16,329	22,107	25,202	30,374	33,275	41,467	53,375
India	154	205	291	345	278	563	619	705	759	937	1,327
Indonesia	150	211	180	179	205	274	520	1,068	1,544	2,348	2,729
Japan	47,487	53,370	55,564	61,163	62,684	71,546	79,524	84,108	83,373	91,052	105,410
Malaysia	2,416	3,481	4,346	5,459	6,236	8,647	11,208	13,696	16,387	22,965	29,499
Philippines	413	595	1,453	878	2,002	1,714	2,233	2,798	3,401	4,204	5,804
Singapore	5,395	7,076	10,070	13,424	16,378	19,791	21,387	24,962	28,595	39,874	56,795
South Korea	4,098	6,082	8,294	9,746	8,348	9,149	10,775	12,379	13,265	17,120	24,842
Taiwan	4,055	7,345	10,039	10,345	9,998	11,154	12,707	14,735	16,593	20,525	26,902
Thailand	126	147	804	1,236	1,731	2,780	3,772	4,804	5,220	6,930	8,604
All others	16,371	19,091	21,520	22,077	25,883	30,863	33,694	37,761	37,927	44,281	53,602
Argentina	97	119	108	115	142	173	206	216	241	262	389
Australia	471	659	832	614	833	1,133	1,394	1,611	1,728	2,188	2,715
Brazil	590	1,028	1,399	1,310	1,614	1,230	1,162	1,089	955	879	965
Canada	5,084	6,263	6,821	6,642	6,478	8,495	9,789	9,988	9,553	11,720	14,456

Exports, imports, and gross revenue of high-technology manufacturing industries, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Chile	3	13	13	8	10	18	30	38	42	40	41
Costa Rica.....	39	47	31	56	58	59	83	96	101	81	88
Egypt	10	20	21	16	10	18	38	47	49	46	53
Iran	6	10	9	6	5	5	31	44	48	39	37
Israel.....	890	977	1,090	1,272	1,002	1,574	1,899	1,928	2,315	3,014	3,563
Mexico	1,065	127	296	586	4,172	4,436	4,895	6,191	6,805	9,674	12,778
Morocco.....	10	22	20	18	58	146	165	150	102	107	41
Norway	403	657	806	907	919	1,142	1,149	1,491	1,510	1,668	1,903
Russia.....	590	696	853	596	1,007	718	606	1,151	968	609	556
Saudi Arabia.....	48	143	137	28	51	225	452	692	133	5	806
South Africa	134	168	48	53	77	74	95	193	217	302	378
Switzerland.....	6,302	7,450	8,174	8,876	8,534	10,193	10,408	11,454	11,591	11,788	12,964
Tunisia	11	29	41	61	76	80	78	79	116	116	107
Turkey.....	83	73	132	181	164	272	338	267	293	309	308
All others.....	533	588	690	731	674	872	876	1,036	1,159	1,434	1,452
Imports											
All regions/countries/economies	220,751	257,179	294,738	342,344	359,596	414,838	460,500	501,656	523,622	607,995	733,056
United States.....	46,195	54,057	58,063	59,880	62,377	68,045	74,819	84,428	90,516	108,829	132,056
EU	43,546	51,890	60,852	71,593	78,301	90,386	98,007	99,281	95,536	104,688	123,332
Austria	2,329	2,856	3,489	4,124	4,320	4,986	5,503	5,916	5,685	6,338	7,026
Belgium	3,834	4,877	5,759	6,053	6,912	8,199	8,818	9,407	9,753	10,257	11,628
Bulgaria	238	289	296	286	304	279	229	269	254	272	305
Czech Republic	891	1,029	1,155	905	1,133	1,182	1,300	1,682	1,584	1,900	2,386
Denmark	1,977	2,461	2,680	3,156	2,833	3,281	3,985	3,831	3,547	4,225	5,035
Finland.....	2,315	2,518	2,803	2,712	3,006	3,007	2,766	2,430	2,399	3,215	4,350
France.....	13,683	14,931	18,041	24,099	26,775	29,500	34,577	33,870	32,501	33,984	37,076
Germany	17,911	22,538	26,398	28,792	31,369	39,889	44,381	45,977	44,137	48,827	56,421
Greece	784	833	841	1,067	1,234	1,488	1,930	2,055	2,480	2,325	3,039
Hungary	454	512	584	668	753	818	1,217	1,276	1,481	1,891	1,598
Ireland.....	1,681	1,845	2,184	2,817	2,932	3,097	3,561	3,890	4,307	5,074	7,295
Italy.....	8,613	10,377	12,782	14,981	15,532	19,063	19,741	20,504	17,251	18,982	20,985
Netherlands.....	7,795	10,161	11,689	12,497	13,118	15,862	16,810	17,957	18,464	20,571	25,827
Poland.....	579	679	758	877	1,049	1,051	2,095	1,901	2,276	2,281	2,832
Portugal	676	927	1,283	1,637	1,845	2,210	2,361	2,946	2,266	2,914	3,300
Romania.....	170	213	180	175	401	462	337	376	556	671	788
Slovakia	354	424	483	301	371	377	417	556	457	689	821
Spain.....	2,784	3,959	5,284	6,948	8,677	10,243	11,032	10,827	9,027	9,953	11,203
Sweden.....	4,265	4,713	5,312	5,960	6,162	6,651	6,385	5,937	5,991	6,658	9,165
United Kingdom.....	16,151	17,175	19,785	24,600	26,480	29,287	28,330	30,209	31,687	35,686	41,847

Appendix table 6-14

(Page 3 of 5)

Exports, imports, and gross revenue of high-technology manufacturing industries, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Asia.....	42,072	46,974	59,001	75,155	79,847	97,012	110,842	129,604	148,263	182,770	237,449
China.....	12,600	12,160	15,133	20,639	19,133	24,185	29,090	37,862	41,890	48,741	59,783
India.....	1,445	1,985	2,298	2,203	2,707	2,470	1,488	1,662	2,523	2,499	3,181
Indonesia.....	1,167	978	1,042	921	1,008	1,899	2,056	2,938	2,930	2,278	2,354
Japan.....	9,261	11,130	13,315	16,374	17,572	20,728	22,135	23,519	25,932	32,648	44,670
Malaysia.....	3,155	3,529	4,390	4,992	6,247	7,783	9,631	10,479	13,407	20,089	27,224
Philippines.....	686	747	1,164	1,167	2,006	2,061	1,994	2,508	3,470	4,097	5,509
Singapore.....	5,314	5,886	7,618	9,766	10,982	13,817	16,281	18,452	23,089	30,134	38,461
South Korea.....	4,125	4,916	6,226	8,549	8,731	9,753	11,133	11,520	12,962	16,018	21,024
Taiwan.....	3,140	4,068	5,772	7,350	8,164	9,365	11,394	13,877	15,284	16,884	22,260
Thailand.....	1,180	1,575	2,044	3,194	3,297	4,950	5,641	6,787	6,777	9,382	12,985
All others.....	45,000	52,830	55,887	64,656	62,167	68,851	79,064	85,807	88,740	99,683	110,624
Argentina.....	584	789	1,002	773	595	710	1,336	2,420	2,667	3,274	2,824
Australia.....	4,645	5,566	4,689	5,787	6,615	7,341	6,994	7,531	6,729	8,424	9,867
Brazil.....	1,540	2,392	2,657	2,808	3,283	3,760	4,368	3,783	4,309	5,225	7,710
Canada.....	9,720	10,913	12,204	15,512	13,496	15,489	16,995	18,943	19,584	22,177	26,542
Chile.....	235	321	364	496	711	890	1,006	1,276	1,026	1,240	1,702
Costa Rica.....	90	124	139	148	171	187	242	278	353	482	373
Egypt.....	1,074	1,712	1,605	3,055	1,139	1,396	1,378	1,859	1,594	1,523	1,164
Iran.....	787	695	786	663	625	1,192	1,570	1,872	1,214	1,101	1,066
Israel.....	1,056	1,159	1,768	1,874	1,259	1,863	2,109	2,624	3,027	3,384	3,689
Mexico.....	2,437	2,318	2,494	4,087	4,967	5,868	7,495	8,844	9,244	11,995	10,090
Morocco.....	222	342	279	315	438	627	544	618	593	794	721
Norway.....	1,633	2,194	2,165	2,177	2,088	2,508	2,843	2,817	3,050	3,200	3,562
Russia.....	3,776	4,016	4,364	3,534	4,474	4,308	3,899	3,255	3,166	4,825	5,176
Saudi Arabia.....	3,719	4,158	3,998	4,122	4,523	2,524	5,390	4,780	4,784	3,380	3,397
South Africa.....	1,414	1,423	1,642	1,803	1,573	1,696	2,481	2,390	2,541	2,972	3,719
Switzerland.....	4,586	5,975	6,947	7,897	7,413	8,430	9,627	9,814	10,139	10,767	12,988
Tunisia.....	181	225	259	275	317	474	482	637	605	611	578
Turkey.....	1,349	1,359	1,507	1,829	1,648	2,249	2,587	2,769	3,935	3,203	3,314
All others.....	5,953	7,147	7,018	7,502	6,832	7,340	7,716	9,297	10,179	11,104	12,141
Revenue											
All regions/countries/economies.....	1,038,357	1,106,429	1,183,340	1,283,838	1,359,397	1,396,212	1,452,797	1,402,263	1,407,738	1,479,740	1,593,329
United States.....	262,476	281,798	290,486	307,155	322,976	332,938	337,488	331,351	330,886	331,966	358,048
EU.....	312,348	325,287	335,660	348,263	368,406	375,815	383,821	378,405	371,600	389,104	417,241
Austria.....	4,342	4,610	4,833	5,121	5,326	5,671	5,823	5,930	6,097	6,332	6,544
Belgium.....	8,383	8,163	8,634	9,209	9,075	9,264	8,984	9,136	8,512	8,697	9,601
Bulgaria.....	891	934	1,095	1,254	1,560	1,017	836	507	366	479	467
Czech Republic.....	1,369	1,295	1,468	1,453	1,395	1,188	1,118	1,211	1,200	1,756	2,251
Denmark.....	2,828	3,119	2,974	3,175	3,389	3,356	3,353	3,668	3,746	4,122	4,360
Finland.....	2,165	2,342	2,687	2,752	3,045	3,282	3,005	3,513	4,265	5,359	6,645

Exports, imports, and gross revenue of high-technology manufacturing industries, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
France.....	72,487	78,455	79,790	79,720	82,421	83,838	85,175	83,535	81,727	82,517	84,950
Germany.....	66,210	67,562	68,615	72,485	76,015	78,977	91,488	87,121	80,322	83,519	84,541
Greece.....	704	762	835	744	683	722	837	855	732	721	770
Hungary.....	9,110	9,191	9,607	9,755	9,431	8,000	5,610	4,677	4,732	7,048	8,829
Ireland.....	4,496	4,987	6,129	7,296	8,461	8,922	8,650	9,439	9,818	11,404	16,661
Italy.....	45,605	45,811	46,825	48,437	51,630	52,760	51,999	51,717	49,721	48,223	53,087
Netherlands.....	12,124	13,003	12,952	12,814	13,281	13,989	14,165	14,382	14,006	14,705	14,778
Poland.....	3,334	3,632	3,801	4,177	4,145	3,432	2,652	2,350	2,709	3,250	3,500
Portugal.....	1,873	1,709	1,744	1,509	1,955	2,076	2,054	2,125	2,048	2,368	2,870
Romania.....	1,900	1,957	1,405	1,340	1,264	1,073	753	531	580	590	757
Slovakia.....	581	576	578	574	574	552	403	414	449	466	559
Spain.....	16,684	17,074	18,501	19,103	19,057	18,438	17,575	15,902	16,284	16,471	17,835
Sweden.....	6,631	6,485	6,671	6,794	7,586	8,886	10,592	11,630	12,487	14,533	17,664
United Kingdom.....	50,633	53,620	56,514	60,548	68,115	70,374	68,747	69,759	71,798	76,544	80,573
Asia.....	351,747	380,885	435,191	503,783	537,564	556,213	599,469	567,990	579,262	630,397	681,917
China.....	23,341	25,567	32,215	38,305	40,154	40,763	47,755	51,757	60,796	70,477	69,848
India.....	2,078	2,412	3,389	3,913	4,874	5,593	5,870	6,889	6,725	7,825	8,945
Indonesia.....	501	520	606	564	730	1,413	1,558	2,119	2,302	3,064	4,277
Japan.....	289,161	306,709	338,534	391,622	415,193	419,693	444,140	398,544	386,667	406,641	427,305
Malaysia.....	1,895	2,552	3,239	3,704	4,808	6,989	10,849	12,764	15,417	20,639	27,397
Philippines.....	1,045	1,035	1,082	1,252	1,460	1,595	1,605	1,698	2,050	2,155	2,838
Singapore.....	8,193	7,739	10,161	12,269	14,808	19,112	18,179	19,334	22,334	28,465	33,356
South Korea.....	9,325	13,410	19,357	23,759	24,249	27,853	31,336	33,326	36,350	42,878	54,372
Taiwan.....	15,827	20,755	26,289	27,928	30,276	31,225	35,242	38,577	42,841	45,149	50,243
Thailand.....	381	185	318	469	1,012	1,978	2,935	2,982	3,779	3,105	3,337
All others.....	111,786	118,459	122,004	124,637	130,451	131,246	132,019	124,517	125,991	128,272	136,123
Argentina.....	5,385	7,220	7,140	5,556	4,140	5,128	5,495	6,723	5,178	5,605	5,097
Australia.....	4,337	4,373	4,551	5,074	5,305	5,633	5,939	6,181	6,076	6,528	6,817
Brazil.....	28,766	34,196	33,783	31,969	32,694	25,382	23,901	24,140	25,944	28,409	28,168
Canada.....	12,505	13,478	15,731	17,453	18,931	19,266	18,109	18,776	18,424	20,488	23,766
Chile.....	271	327	361	410	499	458	513	619	677	673	707
Costa Rica.....	175	237	233	258	250	223	201	227	284	322	295
Egypt.....	912	852	871	1,054	1,249	1,270	1,210	1,140	856	1,063	1,272
Iran.....	300	328	345	344	484	498	447	429	344	667	645
Israel.....	7,244	6,847	4,653	4,386	5,324	4,722	4,963	5,148	5,569	5,822	6,824
Mexico.....	14,121	12,777	13,492	14,473	16,274	18,963	21,732	18,773	19,403	20,648	21,221
Morocco.....	293	300	335	434	366	477	486	497	378	400	376
Norway.....	1,349	1,505	1,708	1,864	2,089	2,116	1,982	2,090	2,199	2,556	2,761
Russia.....	10,919	10,750	11,658	12,730	14,214	14,652	14,410	7,833	8,471	4,413	6,146
Saudi Arabia.....	114	139	128	148	163	166	195	221	223	214	209
South Africa.....	2,762	2,514	3,642	3,968	3,753	3,447	3,237	3,139	2,986	3,347	3,566

Appendix table 6-14

Exports, imports, and gross revenue of high-technology manufacturing industries, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Switzerland	12,901	13,616	13,209	14,421	14,724	17,993	17,334	17,688	17,547	16,723	17,529
Tunisia	104	75	73	77	174	214	223	222	208	218	214
Turkey	3,112	2,462	2,956	3,035	3,372	3,781	4,664	3,453	3,705	2,883	3,262
All others.....	6,216	6,463	7,134	6,983	6,445	6,855	6,980	7,217	7,519	7,290	7,247

EU = European Union

NOTES: High-technology manufacturing industries classified by Organisation for Economic Co-operation and Development and include aerospace, communications equipment, office machinery and computers, pharmaceuticals, and scientific instruments. Gross revenue represents total value of all domestic or international industry shipments. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. EU exports and imports exclude intra-EU exports and imports. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Science and Engineering Indicators 2008

Exports, imports, and gross revenue of high-technology manufacturing industries, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Exports										
All regions/countries/economies	821,327	956,377	1,012,983	1,159,068	1,406,431	1,379,630	1,458,624	1,714,619	2,042,787	2,261,359
United States	154,029	183,811	202,033	219,466	249,695	230,431	207,237	215,286	240,454	262,091
EU	112,439	136,583	146,389	161,975	198,702	200,007	188,929	204,872	232,417	257,417
Austria	5,067	5,121	5,503	5,601	6,687	7,618	8,589	9,005	10,192	11,809
Belgium	12,928	14,554	16,594	19,107	21,435	25,423	31,759	35,967	42,083	45,923
Bulgaria	185	233	172	133	153	167	205	263	316	336
Czech Republic	946	1,171	1,746	1,728	2,026	3,575	5,170	6,444	7,427	8,249
Denmark	5,365	6,307	6,715	8,007	8,583	9,268	10,084	9,734	10,480	11,334
Finland	4,396	5,732	7,775	9,149	12,651	11,162	12,060	13,203	13,950	15,067
France	39,060	47,125	53,664	59,010	69,581	68,963	68,350	72,657	79,615	83,726
Germany	56,588	66,490	75,901	85,207	97,409	108,345	107,381	120,709	147,275	156,955
Greece	270	324	410	571	773	756	714	1,033	1,115	1,187
Hungary	1,069	3,687	5,182	7,116	8,737	8,346	9,258	11,635	12,799	13,707
Ireland	12,471	16,373	20,409	27,647	32,881	38,710	38,267	36,936	44,870	49,947
Italy	19,612	20,039	21,537	22,707	25,873	26,373	25,992	25,957	28,859	29,782
Netherlands	23,411	35,266	34,562	42,240	50,245	44,317	42,265	55,455	65,369	72,721
Poland	948	1,270	1,449	1,433	1,736	2,056	2,445	3,038	3,391	3,776
Portugal	1,352	1,456	1,593	1,947	2,321	2,635	2,593	3,467	3,748	4,065
Romania	90	77	107	209	642	633	673	738	736	657
Slovakia	315	476	518	546	558	712	756	1,134	1,309	1,368
Spain	6,629	7,179	8,269	9,704	10,127	10,972	12,245	13,959	15,816	16,337
Sweden	13,522	15,850	18,047	19,095	21,142	17,504	18,694	20,750	23,621	24,785
United Kingdom	57,505	62,467	66,623	68,728	79,933	92,158	88,932	85,904	83,927	85,664
Asia	344,615	391,270	379,073	454,139	586,369	552,286	652,231	849,249	1,064,011	1,210,141
China	57,436	67,091	73,292	87,994	121,537	138,616	189,836	290,749	369,862	440,104
India	1,554	1,556	1,448	1,774	2,058	2,587	3,152	4,045	4,585	5,442
Indonesia	3,600	3,758	3,941	3,485	5,705	4,206	5,083	6,074	5,227	5,847
Japan	107,539	120,742	113,050	125,846	149,899	121,571	125,743	155,712	192,185	204,742
Malaysia	33,664	36,105	32,672	39,822	52,291	49,184	51,875	59,832	72,303	88,419
Philippines	11,523	16,272	15,353	17,808	21,855	21,964	24,583	27,937	32,327	34,717
Singapore	62,252	65,212	54,158	62,483	76,829	69,840	73,271	84,488	108,970	124,490
South Korea	26,305	32,241	33,484	49,205	66,326	58,479	74,948	98,445	120,619	126,138
Taiwan	31,385	37,725	41,237	53,373	72,498	69,527	83,622	98,018	128,448	146,504
Thailand	9,357	10,567	10,437	12,350	17,373	16,312	20,117	23,949	29,485	33,738
All others	60,953	70,099	85,101	95,577	116,874	117,222	112,725	122,095	141,423	151,730
Argentina	412	483	526	559	538	620	619	676	805	922
Australia	3,028	3,227	3,346	3,703	3,875	4,225	4,332	4,608	4,583	4,687
Brazil	1,184	1,945	2,793	4,151	6,052	6,269	5,519	5,528	6,099	5,797
Canada	16,524	18,341	21,580	23,332	31,606	25,576	22,069	23,873	25,700	28,172

Exports, imports, and gross revenue of high-technology manufacturing industries, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Chile	46	59	86	95	105	116	126	129	146	156
Costa Rica.....	87	374	1,008	537	640	797	971	1,163	1,453	1,694
Egypt	62	70	81	65	61	64	84	77	92	122
Iran	27	8	11	25	22	29	36	47	55	61
Israel.....	4,135	5,142	5,852	6,765	9,659	9,081	7,676	8,090	9,791	11,139
Mexico	15,296	18,515	24,545	29,352	36,933	39,615	38,863	41,286	49,522	51,600
Morocco.....	20	22	601	675	524	465	689	703	698	688
Norway	1,914	2,228	2,726	2,479	2,182	2,835	3,027	2,802	2,750	2,415
Russia.....	1,613	1,376	1,937	1,425	1,170	1,929	1,697	1,755	4,206	4,133
Saudi Arabia.....	774	801	119	52	62	454	405	680	735	795
South Africa	414	608	722	792	852	852	783	863	912	1,044
Switzerland.....	13,483	14,561	16,162	18,142	18,666	20,264	20,929	24,080	27,305	31,434
Tunisia	93	120	176	99	101	170	235	242	222	216
Turkey.....	419	702	1,021	1,271	1,643	1,644	2,265	2,894	3,200	3,392
All others.....	1,421	1,516	1,808	2,061	2,182	2,217	2,402	2,600	3,148	3,262
Imports										
All regions/countries/economies	812,513	950,149	1,022,303	1,181,100	1,431,821	1,412,803	1,508,215	1,771,612	2,123,829	2,355,785
United States.....	143,067	168,566	191,597	228,753	281,757	257,369	275,254	312,990	367,696	396,744
EU	134,240	158,488	186,292	216,353	249,021	243,186	240,850	289,611	353,101	382,365
Austria	7,364	8,635	9,956	11,168	11,339	11,591	12,306	13,569	15,769	16,759
Belgium	13,225	15,259	18,481	21,794	24,148	29,007	35,147	40,421	49,179	53,256
Bulgaria	302	300	412	600	575	886	854	1,182	1,449	1,724
Czech Republic	2,928	3,078	3,650	3,929	5,181	6,234	7,087	9,040	10,477	12,078
Denmark	5,393	6,653	7,243	7,762	8,103	8,626	11,140	10,992	12,596	13,655
Finland.....	5,606	5,800	6,541	7,416	9,152	8,509	8,237	9,750	11,031	11,596
France.....	39,830	45,894	55,466	61,946	68,887	69,175	67,764	74,601	86,393	89,963
Germany	59,510	65,622	75,333	85,865	97,382	105,635	107,984	125,458	141,615	151,723
Greece	2,829	3,543	4,423	4,767	4,837	5,043	4,834	6,463	8,015	7,299
Hungary	2,033	3,201	4,307	5,346	7,661	7,872	9,059	11,511	13,844	14,894
Ireland.....	7,801	10,813	13,427	16,540	21,454	24,605	25,392	20,925	24,153	27,641
Italy.....	22,500	25,081	28,780	32,810	36,582	36,428	38,367	44,431	49,010	50,672
Netherlands.....	28,928	38,674	41,876	50,059	54,894	57,643	57,491	73,921	86,538	92,159
Poland.....	3,649	4,851	5,665	6,196	7,389	7,844	7,899	8,807	10,504	12,237
Portugal	3,402	4,251	4,860	6,083	6,169	6,547	6,829	7,836	9,019	9,201
Romania.....	854	986	1,364	1,275	1,928	2,044	2,158	2,809	3,542	4,432
Slovakia	903	1,198	1,374	1,254	1,406	1,760	2,035	2,635	3,022	3,525
Spain	14,002	14,700	17,393	22,358	24,599	24,627	26,674	32,559	37,525	40,100
Sweden.....	10,232	11,325	13,440	13,582	15,436	13,363	13,890	14,960	16,480	17,435
United Kingdom.....	47,962	57,978	64,962	74,107	88,891	87,538	83,872	83,911	101,909	104,042

Exports, imports, and gross revenue of high-technology manufacturing industries, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Asia.....	266,444	306,542	283,089	339,287	446,986	437,301	504,374	643,921	803,372	928,838
China.....	64,012	76,440	79,788	90,682	124,971	143,557	182,812	262,776	336,373	402,259
India.....	3,644	3,740	4,212	4,411	5,350	6,370	8,371	12,440	15,636	20,139
Indonesia.....	3,721	4,126	1,858	1,407	2,198	2,568	2,938	3,282	4,084	4,472
Japan.....	50,951	54,243	52,591	64,240	83,119	80,012	81,865	96,773	114,491	124,887
Malaysia.....	29,085	32,926	28,075	32,931	42,706	39,258	46,148	53,418	62,485	69,965
Philippines.....	9,493	14,429	14,270	16,802	19,569	17,742	20,718	24,081	26,117	27,583
Singapore.....	42,403	46,123	39,243	45,688	57,347	52,333	55,082	63,335	78,754	89,692
South Korea.....	24,674	27,493	19,714	30,659	42,853	36,492	41,320	50,789	63,443	73,288
Taiwan.....	24,111	31,620	30,913	38,232	49,734	39,636	44,268	52,131	70,338	79,405
Thailand.....	14,349	15,402	12,422	14,234	19,139	19,332	20,853	24,896	31,650	37,149
All others.....	123,749	147,198	168,663	178,203	207,065	203,156	199,568	218,922	260,688	295,812
Argentina.....	3,192	4,160	4,818	4,963	5,227	3,774	1,135	2,177	3,566	4,230
Australia.....	10,970	11,413	12,076	14,235	16,531	14,681	17,752	21,184	24,970	27,948
Brazil.....	9,539	11,944	12,221	12,273	14,375	14,402	11,132	10,856	13,676	16,198
Canada.....	28,578	33,537	36,679	42,106	49,773	45,869	42,927	45,201	52,270	60,318
Chile.....	1,937	2,257	2,726	2,271	2,747	2,377	2,195	2,330	2,673	3,386
Costa Rica.....	361	512	1,431	1,276	1,554	2,196	2,516	2,871	3,132	3,375
Egypt.....	1,380	2,164	2,078	2,111	2,392	2,678	2,176	1,718	2,081	2,296
Iran.....	1,036	1,515	1,723	1,253	1,461	2,196	2,329	2,927	3,446	4,035
Israel.....	3,895	4,243	5,675	7,219	7,744	7,148	6,343	6,317	7,971	8,864
Mexico.....	12,394	17,131	18,878	23,687	32,449	34,258	36,594	36,722	43,458	46,848
Morocco.....	655	796	1,126	1,394	1,988	1,309	1,759	2,243	2,441	2,986
Norway.....	3,951	4,471	5,507	5,201	6,021	5,989	6,372	6,671	7,516	8,175
Russia.....	5,267	6,142	6,125	4,236	5,126	6,956	7,477	10,586	12,885	15,106
Saudi Arabia.....	5,228	8,102	10,382	7,387	5,854	6,217	5,733	6,356	6,276	7,155
South Africa.....	3,801	4,189	5,825	5,183	5,921	5,709	5,298	6,627	8,054	9,222
Switzerland.....	14,338	13,958	17,108	19,602	20,493	22,100	22,153	24,489	28,437	31,486
Tunisia.....	549	600	802	944	979	979	1,040	1,091	1,381	1,597
Turkey.....	4,068	5,146	6,523	7,517	10,063	6,275	7,294	8,634	11,620	14,095
All others.....	12,609	14,919	16,960	15,343	16,368	18,043	17,346	19,920	24,834	28,492
Revenue										
All regions/countries/economies.....	1,730,980	1,933,233	2,021,050	2,235,632	2,532,230	2,507,420	2,530,667	2,804,620	3,210,253	3,508,943
United States.....	405,798	481,782	578,317	648,872	738,506	756,259	735,138	786,750	844,249	932,864
EU.....	433,378	471,644	484,816	516,080	576,808	582,029	561,892	581,323	622,770	650,268
Austria.....	6,519	6,830	7,616	8,477	9,799	9,401	9,333	9,011	9,964	10,816
Belgium.....	9,194	10,124	10,893	11,763	14,057	14,267	13,654	15,956	16,852	16,926
Bulgaria.....	575	559	432	344	377	391	497	542	534	661
Czech Republic.....	2,281	2,582	3,732	4,325	3,847	5,165	6,134	6,397	9,138	10,175
Denmark.....	5,020	5,329	5,850	6,585	7,613	8,103	8,236	8,007	7,334	7,807
Finland.....	7,434	8,742	12,226	14,957	19,947	19,309	21,109	20,654	23,615	25,435

Exports, imports, and gross revenue of high-technology manufacturing industries, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
France.....	83,109	94,972	101,419	108,009	119,055	120,731	113,533	115,058	120,081	119,764
Germany.....	86,103	88,193	94,750	99,907	116,161	118,977	116,882	123,089	134,845	151,406
Greece.....	797	936	1,199	1,198	1,495	1,524	1,444	1,448	1,444	1,362
Hungary.....	13,618	24,551	5,222	6,539	8,302	9,420	11,360	20,315	29,538	36,900
Ireland.....	17,844	20,699	24,279	26,670	31,696	33,987	34,768	36,649	37,532	37,878
Italy.....	55,235	54,740	54,157	53,073	53,950	50,819	49,410	45,637	46,175	42,738
Netherlands.....	14,666	15,952	16,528	17,329	19,269	18,824	18,148	17,484	17,588	17,519
Poland.....	4,046	4,295	4,650	4,906	5,313	5,600	5,897	6,538	7,561	7,936
Portugal.....	2,898	2,983	3,203	3,298	3,630	3,752	3,623	4,545	4,879	5,684
Romania.....	844	807	585	564	510	520	540	686	757	716
Slovakia.....	621	677	699	655	709	820	992	1,093	1,232	1,533
Spain.....	17,571	17,984	18,956	18,788	20,076	18,451	17,059	17,101	16,877	16,823
Sweden.....	19,994	21,404	23,934	26,332	29,262	29,356	29,182	29,360	32,590	35,068
United Kingdom.....	85,009	89,284	94,486	102,361	111,742	112,612	100,092	101,752	104,234	103,121
Asia.....	750,540	820,880	788,056	886,097	1,006,496	967,851	1,038,368	1,244,485	1,542,236	1,707,305
China.....	88,968	101,615	114,891	145,629	171,937	206,828	272,443	413,420	612,865	747,234
India.....	9,397	10,052	9,664	11,813	10,962	11,923	13,735	14,837	16,605	17,577
Indonesia.....	6,627	7,509	4,417	5,676	6,839	7,436	8,666	9,615	9,809	10,253
Japan.....	461,921	497,147	458,818	465,171	495,189	446,988	411,834	450,694	505,078	502,369
Malaysia.....	27,035	29,584	26,156	33,224	44,601	37,089	40,837	44,363	52,631	59,825
Philippines.....	2,429	4,990	4,048	4,692	6,808	7,498	8,185	7,949	9,800	10,394
Singapore.....	35,415	38,651	37,569	46,594	54,217	44,507	46,700	51,004	55,413	63,569
South Korea.....	62,040	67,059	62,438	88,241	118,960	117,803	133,027	138,508	153,425	163,144
Taiwan.....	52,652	60,541	66,940	81,693	92,877	84,099	98,722	109,127	121,031	126,245
Thailand.....	4,056	3,732	3,115	3,365	4,106	3,681	4,220	4,969	5,578	6,694
All others.....	141,263	158,928	169,861	184,584	210,419	201,282	195,269	192,063	200,998	218,506
Argentina.....	5,551	5,654	5,614	5,049	4,954	4,691	2,995	3,582	4,178	4,930
Australia.....	7,441	8,009	8,315	8,492	8,549	9,231	10,103	10,778	10,510	10,871
Brazil.....	28,635	30,126	28,489	28,822	32,904	36,617	37,959	33,807	34,009	39,519
Canada.....	24,004	27,330	28,983	35,900	45,201	35,806	32,670	34,570	34,745	36,310
Chile.....	647	729	801	731	757	730	758	672	715	817
Costa Rica.....	267	162	162	166	181	169	154	158	174	201
Egypt.....	1,426	1,564	1,357	1,616	1,710	2,096	1,516	1,582	1,570	1,684
Iran.....	710	764	737	649	662	745	566	787	838	1,049
Israel.....	7,460	8,116	8,360	7,936	10,795	10,533	9,166	9,110	9,691	10,031
Mexico.....	25,281	33,798	44,816	51,186	55,108	52,262	48,960	46,020	48,092	51,447
Morocco.....	365	390	414	317	329	323	337	362	352	347
Norway.....	2,918	2,963	3,420	3,474	3,629	3,491	3,643	3,413	3,591	3,768
Russia.....	5,003	5,017	3,749	4,540	5,199	6,736	10,544	9,813	11,235	11,983
Saudi Arabia.....	209	210	194	191	197	210	195	221	228	226
South Africa.....	3,773	3,620	3,058	2,754	2,477	2,394	2,470	2,327	2,619	2,886

Exports, imports, and gross revenue of high-technology manufacturing industries, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Switzerland	16,975	18,366	19,245	20,564	25,564	23,629	20,201	20,558	22,486	24,589
Tunisia	306	314	340	354	360	357	345	339	368	392
Turkey	3,308	4,865	5,102	5,371	5,499	4,331	5,388	5,844	6,703	7,358
All others.....	6,985	6,931	6,705	6,474	6,345	6,930	7,297	8,119	8,892	10,097

EU = European Union

NOTES: High-technology manufacturing industries classified by Organisation for Economic Co-operation and Development and include aerospace, communications equipment, office machinery and computers, pharmaceuticals, and scientific instruments. Gross revenue represents total value of all domestic or international industry shipments. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. EU exports and imports exclude intra-EU exports and imports. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Science and Engineering Indicators 2008

Exports, imports, and gross revenue of radio, television, and communications equipment, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Exports											
All regions/countries/economies	81,793	96,479	111,283	127,132	134,451	157,462	174,353	191,852	210,989	266,088	339,800
United States.....	12,853	14,455	16,398	21,141	21,793	24,774	26,095	28,578	33,808	43,817	56,258
EU.....	8,437	8,854	9,327	9,747	9,976	11,298	12,946	14,236	18,247	23,426	30,214
Austria	925	1,148	1,324	785	1,445	1,956	1,979	1,716	783	1,911	1,055
Belgium	989	1,593	1,807	1,709	1,604	1,925	1,968	1,929	2,750	3,105	3,277
Bulgaria	12	26	16	35	31	19	6	5	5	5	7
Czech Republic	195	232	282	70	80	89	100	101	95	132	234
Denmark.....	376	476	560	586	623	697	694	708	738	891	1,129
Finland.....	265	388	461	451	493	659	638	807	1,107	1,717	2,493
France.....	2,444	2,578	3,252	3,634	3,701	4,787	5,366	5,502	6,087	7,168	9,599
Germany.....	5,754	6,578	7,388	8,218	8,319	9,080	9,925	10,004	9,746	12,745	14,599
Greece.....	13	14	13	15	19	23	29	40	72	57	62
Hungary.....	118	141	126	143	79	139	303	239	274	402	456
Ireland.....	385	297	328	409	514	462	639	637	804	1,305	2,242
Italy.....	1,674	1,889	2,117	2,430	2,463	2,832	2,952	3,129	3,698	4,076	5,049
Netherlands.....	1,803	2,292	2,502	2,028	2,120	2,698	2,612	2,997	3,319	3,596	4,628
Poland.....	63	73	74	81	74	64	43	64	103	171	307
Portugal.....	262	235	271	267	322	436	446	548	494	646	959
Romania.....	13	17	14	23	33	16	5	6	11	16	14
Slovakia.....	67	79	97	19	27	30	34	37	47	77	79
Spain.....	125	179	184	286	317	536	750	1,022	1,354	1,565	1,897
Sweden.....	1,273	1,242	1,258	1,644	1,700	1,876	1,958	2,068	2,786	3,867	5,454
United Kingdom.....	2,928	3,388	3,868	4,942	5,409	6,738	7,393	8,190	10,278	12,765	17,339
Asia.....	45,016	55,316	64,471	73,876	75,973	89,315	101,541	112,764	121,727	151,996	194,695
China.....	2,338	2,840	4,487	7,335	8,381	11,545	12,897	15,365	17,708	23,183	29,550
India.....	10	19	18	22	21	31	39	53	69	93	214
Indonesia.....	78	62	60	65	76	134	301	747	1,144	1,836	2,129
Japan.....	30,615	33,559	33,200	35,930	36,461	41,083	45,861	47,539	46,961	51,828	60,215
Malaysia.....	2,224	3,258	4,075	5,074	5,623	7,604	9,411	11,421	13,882	18,775	24,902
Philippines.....	389	567	1,288	838	1,739	1,507	1,926	2,298	2,785	3,522	4,924
Singapore.....	3,282	4,728	6,831	9,167	10,028	12,064	13,176	14,826	16,574	23,746	33,158
South Korea.....	3,264	4,903	6,923	8,007	6,749	7,419	8,906	10,206	10,648	14,059	20,307
Taiwan.....	2,811	5,371	6,971	6,631	5,792	6,023	6,452	7,184	8,564	10,409	13,729
Thailand.....	6	10	617	808	1,103	1,903	2,572	3,124	3,390	4,545	5,568
All others.....	4,240	3,841	4,473	4,341	7,312	8,313	8,874	10,763	10,903	14,057	17,968
Argentina.....	3	8	6	4	2	5	6	6	8	39	82
Australia.....	45	57	70	71	117	189	197	174	194	265	469
Brazil.....	228	341	434	394	282	273	289	261	237	204	187
Canada.....	1,884	1,848	1,958	1,809	1,981	2,357	2,806	3,445	3,430	4,143	5,143

Exports, imports, and gross revenue of radio, television, and communications equipment, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Chile	0	0	0	0	1	1	1	1	3	3	4
Costa Rica.....	0	0	0	1	1	0	0	2	2	1	2
Egypt	0	1	5	2	0	0	0	0	0	0	0
Iran	1	1	1	2	1	1	5	8	11	8	9
Israel.....	236	239	314	416	357	552	618	843	1,048	1,409	1,787
Mexico	711	7	19	65	2,811	3,008	3,205	4,091	4,306	6,118	7,915
Morocco.....	3	6	7	5	41	108	132	112	53	51	2
Norway	108	184	223	250	247	269	315	385	387	478	679
Russia.....	366	432	554	327	584	376	109	177	36	60	96
Saudi Arabia.....	11	21	38	8	9	48	94	151	11	2	127
South Africa	86	9	7	7	9	10	18	43	63	59	101
Switzerland.....	492	589	750	721	700	774	738	765	804	853	963
Tunisia	3	7	10	11	15	20	27	22	41	51	49
Turkey.....	34	19	38	89	96	194	243	185	158	175	203
All others.....	30	69	38	158	61	129	72	90	111	138	149
Imports											
All regions/countries/economies	78,997	92,731	107,880	122,246	129,964	151,216	167,570	184,432	203,353	257,783	330,286
United States.....	23,782	27,312	28,133	26,607	30,114	31,583	33,911	38,483	41,588	51,656	64,918
EU	12,178	14,910	18,523	21,953	22,978	27,814	30,189	29,191	29,847	33,695	40,594
Austria	653	835	1,038	1,402	1,352	1,690	1,847	1,817	1,730	2,026	2,054
Belgium	933	1,378	1,474	1,545	1,618	2,062	2,154	2,249	2,569	2,891	3,148
Bulgaria	63	72	66	70	75	65	40	68	62	92	91
Czech Republic	278	332	371	229	305	347	319	425	368	480	657
Denmark.....	609	749	804	725	757	863	874	959	1,005	1,305	1,638
Finland.....	822	818	926	823	970	883	837	765	851	1,256	1,946
France.....	2,633	3,490	4,267	5,430	5,257	6,724	7,084	6,667	7,117	8,139	10,047
Germany	5,308	6,589	8,077	8,642	9,185	12,877	14,141	13,795	14,598	17,407	21,040
Greece	226	296	243	327	360	401	449	523	776	692	723
Hungary	119	145	162	186	226	260	410	402	406	608	554
Ireland.....	352	341	391	606	769	772	825	979	1,399	1,752	2,544
Italy.....	2,336	2,882	3,796	4,644	4,825	6,016	6,438	6,051	5,127	6,344	7,055
Netherlands.....	2,100	2,718	3,161	3,271	3,172	3,903	4,254	4,397	4,811	5,049	6,515
Poland.....	73	114	148	201	246	411	933	568	630	685	858
Portugal	223	353	457	557	591	782	954	1,082	787	883	1,271
Romania.....	40	48	52	37	111	113	142	177	186	200	271
Slovakia	106	124	138	74	91	106	100	137	103	167	205
Spain	649	1,133	1,553	2,003	2,436	2,795	3,066	3,078	2,492	2,954	3,510
Sweden.....	1,851	1,703	1,936	1,829	1,941	1,920	1,873	1,769	1,765	2,375	3,529
United Kingdom.....	4,346	5,027	6,221	7,484	8,141	8,635	8,410	9,062	10,130	12,423	15,481

Exports, imports, and gross revenue of radio, television, and communications equipment, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Asia.....	18,012	20,535	28,048	37,318	39,200	47,782	55,673	65,324	77,855	104,150	140,963
China.....	5,831	5,016	7,041	11,025	9,767	12,409	15,194	19,466	22,647	28,857	36,061
India.....	419	581	820	727	683	489	341	369	418	618	1,063
Indonesia.....	529	288	357	323	310	506	794	1,124	1,109	886	1,158
Japan.....	1,677	2,173	2,909	3,944	4,956	5,768	6,268	6,511	8,496	12,253	19,080
Malaysia.....	2,332	2,756	3,548	4,002	4,641	5,410	6,835	7,222	9,418	14,903	20,892
Philippines.....	406	460	695	676	1,230	1,279	1,419	1,687	2,117	3,036	3,941
Singapore.....	2,746	3,461	4,672	6,059	6,621	8,739	10,305	11,792	14,615	20,128	26,499
South Korea.....	1,968	2,535	3,448	4,290	4,166	4,917	5,140	5,699	6,405	7,884	10,825
Taiwan.....	1,636	2,564	3,821	4,796	5,149	5,959	6,731	8,422	9,076	10,381	14,323
Thailand.....	469	700	738	1,475	1,677	2,306	2,647	3,031	3,554	5,204	7,122
All others.....	13,484	15,738	16,419	18,239	18,223	20,229	22,836	25,655	27,000	34,248	41,270
Argentina.....	202	318	466	295	176	208	549	1,093	1,186	1,339	1,121
Australia.....	1,042	1,127	1,109	1,220	1,422	1,432	1,333	1,591	1,747	2,291	3,298
Brazil.....	492	941	907	945	978	1,085	997	952	1,333	2,127	3,354
Canada.....	2,887	3,669	4,065	4,673	4,953	5,494	6,299	7,276	7,680	9,153	11,648
Chile.....	52	106	125	193	304	300	429	440	444	507	687
Costa Rica.....	14	27	33	35	37	41	55	60	89	99	84
Egypt.....	549	619	471	482	265	358	401	349	317	274	324
Iran.....	275	162	196	169	107	209	544	821	326	260	430
Israel.....	320	380	377	464	332	520	552	633	812	1,052	1,385
Mexico.....	1,263	1,281	1,109	2,341	2,571	3,124	3,558	4,072	4,327	6,468	6,078
Morocco.....	81	77	79	90	177	189	230	198	184	255	306
Norway.....	487	649	615	540	475	526	566	668	735	921	1,091
Russia.....	1,348	1,488	1,702	1,158	1,480	1,312	1,150	1,124	1,039	1,681	2,098
Saudi Arabia.....	1,164	765	643	647	692	685	938	747	791	651	967
South Africa.....	402	404	422	434	354	386	423	507	583	974	1,343
Switzerland.....	865	1,156	1,446	1,595	1,462	1,623	1,708	1,604	1,543	1,972	2,227
Tunisia.....	47	61	45	49	57	84	105	141	139	135	144
Turkey.....	606	653	626	573	528	688	825	723	905	864	946
All others.....	1,389	1,854	1,983	2,336	1,853	1,969	2,173	2,658	2,819	3,225	3,739
Revenue											
All regions/countries/economies.....	349,914	373,810	394,306	435,027	457,988	482,164	512,254	489,372	509,766	558,984	623,148
United States.....	40,866	44,546	33,552	34,440	37,286	40,121	40,977	45,600	51,831	58,833	68,332
EU.....	90,886	95,137	98,305	102,676	107,022	107,862	109,340	105,251	109,212	121,232	130,757
Austria.....	2,907	2,979	3,100	3,215	3,445	3,682	3,713	3,750	3,879	4,056	4,042
Belgium.....	3,852	3,690	3,671	3,793	3,850	3,810	3,646	3,280	3,055	3,254	3,466
Bulgaria.....	296	313	385	447	593	388	331	185	128	157	145
Czech Republic.....	288	271	292	296	289	245	353	330	264	327	609
Denmark.....	667	807	785	759	843	834	797	942	956	1,029	1,069
Finland.....	712	831	989	980	1,132	1,226	1,067	1,461	2,249	3,182	4,313

Exports, imports, and gross revenue of radio, television, and communications equipment, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
France.....	16,340	18,599	19,159	17,772	17,520	18,808	19,535	19,034	19,733	19,954	21,118
Germany.....	12,542	13,291	13,292	13,862	14,498	14,875	19,299	17,654	16,987	19,386	18,998
Greece.....	221	255	163	157	186	187	264	264	289	268	233
Hungary.....	6,965	6,980	7,444	7,580	7,363	6,200	4,197	3,621	3,561	5,907	7,754
Ireland.....	289	342	454	596	753	841	836	1,019	1,122	1,312	1,960
Italy.....	17,245	17,140	17,792	19,929	21,444	21,094	21,274	20,049	20,637	20,131	20,622
Netherlands.....	6,254	6,715	6,705	6,584	6,629	7,184	6,835	6,820	6,650	7,075	6,838
Poland.....	1,142	1,220	1,274	1,438	1,488	1,157	840	732	922	1,141	1,103
Portugal.....	781	609	617	647	833	893	841	890	855	990	1,407
Romania.....	42	46	39	39	40	44	62	25	44	108	175
Slovakia.....	140	139	141	141	143	139	107	99	88	86	112
Spain.....	2,383	2,768	3,658	4,272	4,272	4,021	3,781	3,273	4,417	4,607	5,158
Sweden.....	1,507	1,434	1,379	1,498	1,774	2,155	2,870	3,507	4,232	6,491	8,561
United Kingdom.....	16,313	16,706	16,967	18,672	19,928	20,079	18,692	18,315	19,145	21,773	23,074
Asia.....	183,920	198,520	226,145	260,172	273,737	293,756	319,047	302,137	312,295	338,833	379,047
China.....	15,799	17,530	22,868	26,403	27,728	28,010	31,530	32,521	35,197	41,568	41,686
India.....	383	479	777	910	1,254	1,619	1,658	1,921	1,731	1,966	2,488
Indonesia.....	102	115	113	113	157	744	668	1,293	1,393	1,997	3,147
Japan.....	146,711	152,533	164,521	190,231	198,733	209,753	224,251	200,085	197,101	206,909	225,799
Malaysia.....	1,326	2,012	2,636	3,106	4,117	5,545	8,034	8,863	10,487	13,689	18,680
Philippines.....	468	540	596	691	758	887	896	938	1,086	1,209	1,645
Singapore.....	3,077	2,977	4,184	4,718	4,564	6,192	5,308	5,937	8,056	10,815	13,834
South Korea.....	4,684	7,359	11,029	13,837	14,204	17,117	19,843	21,551	23,282	28,131	36,545
Taiwan.....	11,281	14,905	19,246	19,897	21,750	22,336	24,596	26,613	30,714	29,879	32,420
Thailand.....	89	69	176	266	471	1,553	2,263	2,413	3,248	2,668	2,804
All others.....	34,242	35,608	36,304	37,738	39,944	40,426	42,890	36,385	36,427	40,087	45,011
Argentina.....	828	1,023	1,054	800	601	561	701	999	1,067	960	729
Australia.....	1,490	1,598	1,655	1,815	1,789	1,668	1,593	1,687	1,560	1,896	2,031
Brazil.....	9,403	11,672	11,225	10,685	11,084	8,971	8,463	6,743	7,480	10,835	12,577
Canada.....	4,443	4,620	5,560	6,318	6,964	6,711	6,883	7,614	7,583	8,612	10,042
Chile.....	12	20	27	38	44	16	23	26	25	32	43
Costa Rica.....	28	44	45	56	50	52	11	20	33	35	30
Egypt.....	200	147	194	178	201	115	114	133	91	94	129
Iran.....	119	134	121	125	132	132	147	181	128	131	122
Israel.....	2,127	1,957	1,391	1,333	1,443	1,314	1,287	1,282	1,297	1,321	1,505
Mexico.....	8,856	7,846	7,951	8,677	9,614	11,775	14,128	10,582	9,512	9,849	10,122
Morocco.....	46	54	51	52	59	65	66	58	66	64	68
Norway.....	400	449	523	613	697	675	603	617	605	688	767
Russia.....	1,963	1,931	2,093	2,296	2,605	2,706	2,959	979	1,706	807	1,576
Saudi Arabia.....	0	0	0	0	0	0	0	0	0	0	0
South Africa.....	797	673	910	960	933	891	784	694	740	821	952

Appendix table 6-16

(Page 5 of 5)

Exports, imports, and gross revenue of radio, television, and communications equipment, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Switzerland	1,843	1,897	1,908	2,170	2,151	2,772	2,787	2,538	2,391	2,451	2,683
Tunisia	44	36	37	43	86	114	119	120	107	105	100
Turkey	649	384	216	184	242	656	992	997	879	616	700
All others.....	994	1,124	1,343	1,395	1,248	1,231	1,230	1,116	1,157	769	834

EU = European Union

NOTES: Gross revenue represents total value of all domestic or international industry shipments. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. EU exports and imports exclude intra-EU exports and imports. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Science and Engineering Indicators 2008

Exports, imports, and gross revenue of radio, television, and communications equipment, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Exports										
All regions/countries/economies	369,259	424,586	396,562	466,251	626,503	565,246	611,128	730,403	881,445	974,076
United States	59,703	70,056	62,016	74,589	95,804	79,312	73,372	78,585	87,290	91,761
EU	36,115	45,164	44,586	50,356	71,693	65,063	57,524	61,959	69,812	77,488
Austria	2,214	1,652	1,843	1,875	2,527	2,675	2,820	2,612	2,983	3,223
Belgium	3,928	4,484	5,062	5,379	6,884	7,878	5,953	6,349	6,907	7,072
Bulgaria	15	22	11	16	22	26	48	72	83	90
Czech Republic	244	287	471	382	846	1,589	1,735	2,040	2,298	2,417
Denmark	1,226	1,730	1,962	2,181	2,465	2,534	3,607	2,881	3,040	3,033
Finland	3,111	4,082	5,824	7,129	10,825	9,023	9,835	10,671	11,205	12,040
France	10,701	13,860	15,788	16,708	23,119	19,107	17,530	17,182	18,720	19,866
Germany	16,430	19,725	19,204	22,961	30,145	32,118	31,728	34,406	41,376	43,579
Greece	69	105	147	180	345	257	240	230	240	252
Hungary	365	1,359	1,925	2,402	3,461	4,221	5,141	6,795	7,491	7,756
Ireland	2,524	3,097	3,043	5,605	7,435	8,603	9,877	4,412	4,993	5,426
Italy	5,193	5,790	5,619	6,026	7,570	7,761	6,368	6,274	6,958	6,986
Netherlands	6,063	12,353	7,524	9,377	13,643	7,973	5,484	13,754	15,854	17,132
Poland	431	734	945	999	1,205	1,490	1,825	2,203	2,389	2,609
Portugal	878	909	986	1,328	1,531	1,551	1,463	1,878	1,935	2,068
Romania	15	7	27	43	401	411	545	534	521	437
Slovakia	74	174	212	192	253	370	390	510	569	600
Spain	2,029	2,522	2,821	3,261	3,515	3,701	3,704	4,356	4,765	4,800
Sweden	7,227	9,270	10,358	11,428	13,539	8,494	8,967	9,129	9,830	10,510
United Kingdom	19,392	18,918	19,894	21,304	28,440	31,124	31,285	22,410	22,832	23,271
Asia	205,731	227,335	200,484	239,235	324,217	293,994	351,426	462,549	581,068	657,312
China	31,089	35,658	35,292	42,083	61,004	66,900	91,370	132,567	166,999	200,053
India	231	195	151	178	223	249	359	493	601	729
Indonesia	2,801	2,891	3,305	2,801	4,714	3,096	3,915	4,802	3,704	4,137
Japan	58,788	63,661	53,882	60,329	76,402	60,163	63,988	83,246	103,958	110,557
Malaysia	27,222	27,850	23,896	28,483	36,528	33,488	35,545	41,699	50,011	61,623
Philippines	9,361	13,180	11,966	14,105	17,002	15,911	18,146	20,713	23,864	25,655
Singapore	34,135	33,681	23,854	27,791	40,188	34,236	36,890	44,916	59,700	68,770
South Korea	21,130	24,894	24,095	33,355	42,945	38,400	49,040	65,972	83,942	84,794
Taiwan	15,235	18,622	17,458	22,602	34,526	32,274	40,480	54,463	71,195	81,958
Thailand	5,740	6,703	6,584	7,506	10,686	9,278	11,693	13,680	17,094	19,037
All others	21,698	26,115	30,397	33,651	48,312	41,035	37,784	40,571	48,101	51,836
Argentina	55	73	57	51	47	44	71	56	59	61
Australia	501	698	546	518	759	713	535	681	677	649
Brazil	297	590	612	848	1,855	2,063	2,111	2,207	1,766	2,148
Canada	6,573	7,571	7,754	9,113	14,843	8,430	6,897	6,855	7,874	8,936

Appendix table 6-17

Exports, imports, and gross revenue of radio, television, and communications equipment, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Chile	3	5	4	9	8	12	14	11	14	13
Costa Rica.....	5	192	651	95	66	78	81	161	140	108
Egypt	0	0	1	1	2	3	5	6	5	6
Iran	3	0	1	8	9	10	7	12	11	9
Israel.....	2,043	2,630	2,929	3,341	5,898	5,063	3,815	3,754	4,422	4,834
Mexico	9,199	10,508	13,465	15,196	20,092	19,679	18,865	20,474	26,231	28,072
Morocco.....	0	1	504	570	456	387	573	548	563	554
Norway	631	799	946	808	713	894	715	832	803	708
Russia.....	542	803	353	440	274	313	348	480	495	474
Saudi Arabia.....	148	137	32	12	16	24	28	76	72	68
South Africa	121	150	212	233	265	310	320	376	398	430
Switzerland.....	1,075	1,252	1,198	1,282	1,643	1,523	1,244	1,326	1,614	1,766
Tunisia	48	70	108	48	49	64	65	75	78	72
Turkey.....	261	423	801	764	997	1,087	1,710	2,194	2,389	2,469
All others.....	195	213	221	314	320	336	379	448	490	460
Imports										
All regions/countries/economies	359,577	414,780	391,812	464,166	624,817	563,151	611,145	728,975	883,001	978,374
United States.....	66,325	73,831	73,797	87,623	119,698	99,482	104,795	118,522	145,853	165,941
EU	41,659	47,591	48,570	55,724	75,963	67,744	69,120	89,087	103,714	109,294
Austria	2,201	2,938	3,271	3,742	4,042	3,800	4,078	4,664	5,261	5,226
Belgium	3,860	4,579	5,252	6,300	7,844	8,071	7,423	7,744	9,063	9,775
Bulgaria	82	86	122	187	182	331	325	441	511	569
Czech Republic	962	993	1,006	1,216	2,198	2,454	2,172	2,965	3,428	3,663
Denmark.....	1,791	2,620	2,588	2,706	3,200	3,233	4,795	3,893	4,164	4,368
Finland.....	2,097	2,666	2,633	3,119	5,311	4,374	4,016	4,832	5,449	5,566
France.....	11,052	13,601	15,219	17,100	22,458	19,382	18,436	20,061	22,564	23,131
Germany	21,319	22,404	23,348	25,942	35,204	33,642	33,377	41,170	47,065	50,172
Greece	859	1,172	1,373	1,612	1,760	1,755	1,628	2,105	2,220	2,007
Hungary	865	1,385	1,869	2,346	3,847	3,927	4,789	6,402	7,686	8,229
Ireland.....	2,481	3,148	3,478	4,573	7,109	9,125	9,955	4,972	5,644	5,710
Italy.....	7,200	8,446	9,378	10,025	12,403	11,504	10,926	13,553	15,121	15,313
Netherlands.....	7,476	11,598	9,625	12,012	14,426	15,264	15,353	20,511	23,202	23,813
Poland.....	1,254	1,695	2,075	2,389	2,926	2,857	2,923	3,243	3,829	4,359
Portugal	1,297	1,844	1,867	2,113	2,497	2,655	2,920	3,326	3,731	3,652
Romania.....	346	428	573	477	920	713	797	966	1,173	1,368
Slovakia	267	415	436	345	461	612	743	973	1,111	1,279
Spain	4,792	4,650	5,736	7,634	9,043	8,169	9,960	11,487	12,985	13,607
Sweden.....	4,082	5,097	5,329	5,244	7,069	5,105	5,402	6,021	6,539	6,640
United Kingdom.....	18,270	20,324	20,065	23,670	31,881	28,388	30,163	26,046	28,776	28,174

Exports, imports, and gross revenue of radio, television, and communications equipment, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Asia.....	155,905	177,977	147,865	182,441	249,627	229,054	271,402	351,396	439,781	498,914
China.....	37,513	45,698	41,805	50,249	72,309	76,466	101,476	145,481	186,832	219,073
India.....	1,113	1,198	1,065	1,233	1,543	1,904	3,288	5,672	7,014	8,664
Indonesia.....	1,852	1,929	594	519	780	1,080	1,171	1,269	1,906	1,941
Japan.....	21,904	22,017	18,974	23,265	32,819	31,282	31,375	37,677	46,669	49,479
Malaysia.....	22,649	24,113	19,454	23,628	31,905	27,152	31,053	35,503	40,363	43,861
Philippines.....	6,760	9,992	9,901	12,122	13,751	11,402	13,526	16,059	17,069	18,073
Singapore.....	27,728	28,444	21,536	25,093	34,189	27,683	29,972	36,492	46,414	52,912
South Korea.....	13,413	16,144	11,626	18,628	24,858	20,469	24,209	30,906	37,578	41,494
Taiwan.....	15,269	19,889	16,799	20,360	26,875	21,290	24,455	29,974	39,630	44,463
Thailand.....	7,704	8,552	6,111	7,345	10,599	10,327	10,879	12,364	16,307	18,952
All others.....	44,795	52,881	54,907	61,349	80,710	69,256	64,769	73,683	87,844	96,899
Argentina.....	1,170	1,677	1,671	1,699	2,288	1,280	176	544	1,315	1,533
Australia.....	3,515	3,233	2,876	3,840	5,025	4,016	4,329	5,927	6,994	7,683
Brazil.....	4,177	5,134	4,481	4,663	5,916	5,259	3,597	4,005	5,061	5,949
Canada.....	11,942	13,052	13,196	15,646	19,895	14,616	12,945	14,404	17,523	20,092
Chile.....	724	903	1,054	939	1,037	898	903	924	1,056	1,187
Costa Rica.....	107	202	885	656	859	1,311	1,471	1,800	1,867	1,851
Egypt.....	403	472	718	744	693	654	532	531	565	635
Iran.....	385	606	720	382	475	785	736	1,082	1,230	1,387
Israel.....	1,536	1,558	1,649	2,056	3,113	2,353	2,106	2,104	2,676	2,889
Mexico.....	7,382	10,230	10,503	13,932	20,330	19,442	17,926	17,724	20,308	21,763
Morocco.....	300	359	521	686	1,235	743	1,017	1,250	1,484	1,745
Norway.....	1,112	1,200	1,407	1,362	1,659	1,486	1,604	1,751	1,984	2,081
Russia.....	2,072	2,230	1,481	1,007	1,402	2,009	2,697	3,891	4,536	4,974
Saudi Arabia.....	818	941	1,022	1,123	1,075	1,168	1,716	1,663	1,599	1,745
South Africa.....	1,438	1,651	2,321	1,823	2,068	1,821	1,843	2,084	2,532	2,794
Switzerland.....	2,254	2,419	2,644	3,116	4,135	3,690	3,202	3,687	4,099	4,085
Tunisia.....	154	180	193	150	189	235	293	402	456	532
Turkey.....	1,322	1,855	2,216	3,016	4,438	2,043	2,384	3,233	4,508	5,128
All others.....	3,985	4,980	5,352	4,510	4,878	5,447	5,291	6,676	8,053	8,846
Revenue										
All regions/countries/economies.....	697,046	794,159	808,722	937,132	1,148,366	1,088,979	1,097,731	1,273,651	1,533,230	1,694,425
United States.....	84,148	114,518	153,168	204,150	293,459	297,131	281,273	321,095	367,667	420,396
EU.....	142,237	158,653	151,399	164,540	198,316	186,650	173,459	182,920	211,402	230,258
Austria.....	3,958	4,156	4,501	4,891	5,646	5,112	4,655	4,270	5,024	5,518
Belgium.....	3,494	3,791	4,372	4,289	5,741	5,228	4,177	4,246	4,201	3,880
Bulgaria.....	166	115	91	83	111	139	224	245	198	255
Czech Republic.....	709	1,068	2,189	2,618	1,996	2,325	2,819	3,327	5,020	4,811
Denmark.....	1,337	1,344	1,465	1,686	1,773	1,774	1,930	1,863	1,328	1,230
Finland.....	4,966	5,916	9,270	11,945	17,325	16,609	18,478	18,249	21,278	23,083

Exports, imports, and gross revenue of radio, television, and communications equipment, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
France.....	21,348	23,160	25,681	27,026	33,084	30,337	27,556	28,045	31,505	34,012
Germany.....	19,317	20,677	22,579	24,844	33,065	33,208	30,214	33,125	39,456	46,864
Greece.....	163	189	457	404	596	441	294	242	259	160
Hungary.....	12,154	22,175	2,231	2,975	4,019	5,262	6,966	15,585	24,469	31,372
Ireland.....	2,194	2,776	3,318	4,045	5,614	5,718	5,201	4,917	5,020	5,377
Italy.....	21,724	21,141	19,827	19,110	19,125	17,058	15,045	14,401	14,345	13,376
Netherlands.....	6,874	7,158	7,365	7,808	8,880	8,262	6,861	7,008	7,121	6,807
Poland.....	1,371	1,530	1,878	2,014	2,267	2,362	2,613	2,721	3,391	3,833
Portugal.....	1,454	1,412	1,579	1,615	1,926	2,210	2,122	3,020	3,415	4,250
Romania.....	238	286	230	195	107	99	84	98	101	63
Slovakia.....	124	159	171	154	187	297	400	433	538	682
Spain.....	5,002	4,959	5,071	4,226	5,064	4,146	3,350	2,941	2,891	2,632
Sweden.....	10,900	11,830	13,745	16,051	18,383	17,743	16,682	16,580	19,092	21,798
United Kingdom.....	24,742	24,811	25,379	28,559	33,406	28,319	23,786	21,604	22,750	20,255
Asia.....	419,578	460,101	435,656	490,783	566,944	529,453	574,801	699,732	881,123	962,695
China.....	48,595	54,624	54,282	65,505	75,908	89,070	125,530	194,778	303,179	363,470
India.....	2,894	3,080	3,056	3,764	3,563	3,380	3,234	3,595	4,247	3,896
Indonesia.....	5,102	6,166	3,403	4,751	5,662	6,107	6,984	8,262	8,354	8,611
Japan.....	249,855	271,259	252,862	256,472	281,567	251,371	232,300	267,564	309,653	314,010
Malaysia.....	19,147	21,440	19,444	25,595	35,631	28,969	33,650	37,529	45,612	51,421
Philippines.....	1,466	3,244	2,756	3,224	4,956	5,524	6,488	6,248	7,822	8,427
Singapore.....	14,810	15,745	15,425	21,001	24,538	18,762	19,089	21,390	23,013	25,077
South Korea.....	41,839	45,230	40,913	57,360	77,188	74,823	85,304	91,599	105,058	112,601
Taiwan.....	32,479	36,373	41,087	50,615	54,886	48,922	59,173	65,206	70,304	70,663
Thailand.....	3,390	2,941	2,428	2,496	3,046	2,526	3,048	3,561	3,880	4,520
All others.....	51,083	60,887	68,499	77,659	89,647	75,745	68,198	69,904	73,039	81,075
Argentina.....	927	991	1,002	825	855	614	430	507	640	785
Australia.....	2,230	2,254	2,232	2,296	2,307	2,428	2,585	2,824	2,807	2,890
Brazil.....	16,692	16,782	13,784	12,021	14,276	16,049	15,014	14,224	14,825	17,945
Canada.....	9,534	11,077	12,336	17,773	22,285	11,683	9,530	11,263	11,620	12,417
Chile.....	52	47	39	22	21	16	14	14	16	27
Costa Rica.....	32	42	50	31	25	26	25	27	32	38
Egypt.....	201	188	185	188	200	181	209	242	269	306
Iran.....	142	186	206	185	211	244	206	280	307	396
Israel.....	1,892	2,261	2,394	2,685	5,373	4,747	3,589	3,614	3,573	3,540
Mexico.....	11,690	17,654	26,994	32,345	33,370	29,981	26,893	25,751	26,818	29,366
Morocco.....	67	80	81	10	9	9	8	10	11	10
Norway.....	856	986	1,119	1,219	1,293	1,109	1,068	937	981	979
Russia.....	1,109	1,039	765	1,002	1,425	1,815	1,673	2,605	2,811	3,056
Saudi Arabia.....	0	0	0	0	0	0	0	0	0	0
South Africa.....	991	1,033	951	891	807	663	686	661	707	792

Exports, imports, and gross revenue of radio, television, and communications equipment, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Switzerland	2,698	2,725	2,657	2,664	3,540	2,813	2,151	2,274	2,447	2,721
Tunisia	139	140	157	163	174	171	148	147	166	184
Turkey	971	2,495	2,605	2,456	2,631	2,016	2,798	3,155	3,473	3,821
All others.....	861	906	941	881	844	1,183	1,170	1,368	1,537	1,803

EU = European Union

NOTES: Gross revenue represents total value of all domestic or international industry shipments. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. EU exports and imports exclude intra-EU exports and imports. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Science and Engineering Indicators 2008

Exports, imports, and gross revenue of office machinery, accounting, and computing machinery, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Exports											
All regions/countries/economies	26,509	30,514	37,828	44,796	48,663	55,814	61,850	70,257	80,242	101,477	135,292
United States.....	7,773	8,294	10,179	12,426	12,127	13,350	14,445	15,737	17,179	21,227	26,949
EU.....	4,739	4,696	4,840	5,096	5,213	5,244	5,916	6,353	8,462	10,786	13,487
Austria.....	115	128	104	113	172	235	287	303	227	235	293
Belgium.....	270	363	513	424	440	497	529	516	572	783	1,062
Bulgaria.....	38	42	49	53	47	33	7	6	6	5	3
Czech Republic.....	59	71	91	20	24	26	32	41	49	68	103
Denmark.....	80	100	118	121	119	174	234	235	262	438	406
Finland.....	60	63	91	78	99	124	141	242	313	434	443
France.....	1,139	1,369	1,698	1,719	1,834	1,949	2,249	2,462	2,504	3,086	4,099
Germany.....	2,510	2,749	2,874	2,891	3,115	3,333	3,491	3,387	3,562	4,322	5,354
Greece.....	0	1	1	2	3	3	5	5	9	9	10
Hungary.....	8	14	10	33	11	8	16	13	13	19	46
Ireland.....	1,335	1,256	1,535	1,529	1,854	1,836	1,715	1,909	2,409	3,093	4,974
Italy.....	1,145	1,179	1,222	1,510	1,709	1,737	1,791	1,749	2,250	2,489	2,992
Netherlands.....	874	1,073	1,181	1,486	1,807	2,145	2,380	2,590	3,733	4,479	5,876
Poland.....	12	11	14	12	5	4	5	5	6	14	17
Portugal.....	52	39	37	39	46	38	40	26	20	19	22
Romania.....	1	4	6	4	7	2	0	1	1	2	3
Slovakia.....	9	11	14	2	2	2	4	5	3	13	9
Spain.....	290	270	294	302	348	350	471	478	505	564	686
Sweden.....	422	441	458	487	476	478	467	427	380	383	412
United Kingdom.....	2,269	2,376	3,085	3,791	4,113	4,545	4,772	4,896	5,909	7,232	9,647
Asia.....	6,848	9,382	12,610	15,725	18,030	22,497	25,905	31,999	36,745	47,473	64,992
China.....	415	429	651	973	1,203	1,662	2,127	2,931	3,442	4,794	7,846
India.....	6	12	14	10	20	19	12	30	55	86	146
Indonesia.....	7	11	12	8	4	3	20	70	73	96	171
Japan.....	4,750	6,254	7,610	8,997	8,899	10,409	11,668	13,624	14,744	16,904	19,487
Malaysia.....	15	9	18	35	137	348	631	827	1,144	1,995	2,899
Philippines.....	0	4	72	15	113	94	117	210	219	244	483
Singapore.....	765	1,121	1,677	2,341	4,002	5,293	5,647	7,234	9,012	12,570	18,695
South Korea.....	255	427	659	945	792	866	944	1,084	1,434	1,785	2,928
Taiwan.....	599	1,074	1,811	2,153	2,511	3,302	4,104	5,098	5,628	7,548	10,413
Thailand.....	36	42	87	248	349	501	636	892	995	1,452	1,925
All others.....	1,196	1,277	1,645	2,028	2,274	2,446	2,862	3,224	3,585	5,091	6,892
Argentina.....	54	53	39	47	60	57	62	52	40	42	36
Australia.....	42	76	117	58	118	159	229	260	311	493	613
Brazil.....	105	118	90	125	123	75	126	128	101	88	133
Canada.....	565	602	809	1,018	967	1,117	1,358	1,489	1,612	2,316	3,137

Exports, imports, and gross revenue of office machinery, accounting, and computing machinery, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Chile	0	0	0	0	0	0	0	2	2	2	3
Costa Rica.....	0	0	0	0	0	0	0	0	0	0	0
Egypt	0	1	1	1	0	0	0	0	0	0	1
Iran	0	1	0	1	1	1	1	3	3	2	6
Israel.....	49	76	94	115	106	138	129	167	256	233	207
Mexico	113	17	128	233	472	433	467	590	703	1,260	1,878
Morocco.....	0	0	0	0	0	0	0	0	0	0	0
Norway	77	123	132	175	144	157	168	167	166	237	252
Russia.....	25	31	37	14	35	18	7	9	2	4	6
Saudi Arabia.....	1	4	7	1	2	15	15	23	2	0	51
South Africa	8	6	5	8	6	10	10	19	22	24	36
Switzerland.....	149	158	171	208	214	233	250	271	310	333	464
Tunisia	0	0	0	0	1	1	1	2	2	2	3
Turkey.....	0	1	1	1	3	9	8	7	4	5	4
All others.....	7	10	12	23	22	23	33	36	48	50	61
Imports											
All regions/countries/economies	26,206	30,417	37,920	44,795	47,681	54,400	60,624	69,333	80,086	101,625	136,389
United States.....	5,372	6,846	8,705	10,251	10,768	12,029	13,589	16,815	20,344	26,557	34,511
EU	8,170	9,840	12,238	15,000	15,462	17,686	19,566	22,279	23,143	27,396	36,226
Austria	268	328	331	425	481	562	661	668	711	910	1,024
Belgium	563	684	869	767	978	1,083	1,106	1,151	1,046	1,361	1,773
Bulgaria	13	18	19	16	17	16	16	25	24	30	31
Czech Republic	127	142	165	112	159	181	185	220	300	311	429
Denmark.....	283	360	411	434	428	509	573	642	709	887	1,204
Finland.....	624	660	697	513	641	437	406	350	351	535	839
France.....	1,868	2,265	2,669	3,103	3,150	3,358	3,410	3,818	4,303	5,403	6,739
Germany	2,536	3,054	3,769	4,171	4,906	6,052	7,018	7,506	7,745	9,312	12,056
Greece	35	44	59	70	86	103	143	144	164	164	233
Hungary	31	35	58	74	80	104	143	154	200	214	210
Ireland.....	543	595	699	702	773	821	807	1,008	1,266	1,493	2,856
Italy.....	1,174	1,346	1,754	2,028	1,908	2,147	2,315	2,440	2,328	2,588	3,317
Netherlands.....	1,414	1,656	2,041	2,883	3,027	3,579	3,627	4,043	4,823	5,611	8,077
Poland.....	30	42	47	56	57	72	208	163	249	269	402
Portugal	67	86	117	144	179	227	282	298	266	292	414
Romania.....	9	11	8	16	31	25	28	32	47	55	81
Slovakia	38	43	52	26	38	43	44	54	49	88	125
Spain	580	663	777	984	1,053	1,204	1,413	1,421	1,356	1,537	1,814
Sweden.....	564	601	680	836	839	857	878	876	944	1,234	1,750
United Kingdom.....	2,678	2,885	3,736	4,580	5,056	5,378	5,541	6,078	7,040	8,052	10,324

Appendix table 6-18

(Page 3 of 5)

Exports, imports, and gross revenue of office machinery, accounting, and computing machinery, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Asia.....	2,710	3,173	4,349	5,962	6,504	8,043	9,532	11,578	14,049	19,808	30,070
China.....	775	625	903	1,106	1,066	1,275	1,662	2,500	2,825	3,891	5,950
India.....	53	106	117	121	142	129	96	96	114	195	337
Indonesia.....	45	46	41	55	54	73	72	94	72	96	131
Japan.....	798	936	1,158	1,548	1,955	2,261	2,600	2,801	3,453	4,741	8,614
Malaysia.....	87	79	88	98	185	333	523	654	897	1,737	2,511
Philippines.....	29	40	70	65	98	101	96	164	164	201	340
Singapore.....	419	556	933	1,413	1,228	1,749	2,041	2,492	3,367	4,573	6,049
South Korea.....	246	395	421	615	671	777	848	752	899	1,303	1,898
Taiwan.....	181	287	411	579	651	777	894	1,082	1,185	1,436	1,970
Thailand.....	76	104	207	362	455	567	698	945	1,074	1,635	2,272
All others.....	4,679	4,877	5,909	6,642	6,523	7,569	8,700	9,847	11,774	14,916	18,113
Argentina.....	85	61	72	70	71	89	193	230	326	469	467
Australia.....	672	702	783	887	1,065	1,074	1,087	1,233	1,416	1,882	2,327
Brazil.....	169	162	193	218	229	237	269	412	508	765	1,127
Canada.....	1,520	1,565	2,020	2,268	2,072	2,671	3,142	3,602	4,158	4,930	5,965
Chile.....	33	37	43	60	66	66	90	122	140	173	255
Costa Rica.....	7	11	13	13	19	22	20	29	37	37	46
Egypt.....	24	37	42	63	36	56	66	69	60	65	93
Iran.....	14	9	18	6	15	29	53	76	52	45	33
Israel.....	166	147	142	135	128	184	235	244	303	393	493
Mexico.....	290	207	303	429	420	528	701	784	1,063	1,598	1,498
Morocco.....	12	14	15	22	22	24	26	30	41	41	46
Norway.....	248	307	326	302	307	351	372	407	470	573	765
Russia.....	191	206	227	220	265	290	243	237	322	481	648
Saudi Arabia.....	110	89	87	84	67	78	138	146	155	132	141
South Africa.....	224	227	239	245	196	181	213	279	366	476	602
Switzerland.....	476	617	794	909	930	1,041	1,040	1,053	1,218	1,563	1,879
Tunisia.....	6	7	9	14	20	21	23	26	30	33	38
Turkey.....	44	68	88	106	100	138	164	173	247	174	274
All others.....	389	405	495	589	499	489	623	695	861	1,085	1,417
Revenue											
All regions/countries/economies.....	126,457	140,226	162,401	183,854	195,830	192,507	202,466	191,040	192,005	220,602	245,472
United States.....	5,205	5,504	6,824	8,693	9,446	10,696	11,168	13,568	16,781	20,541	30,475
EU.....	37,364	38,301	40,514	40,090	41,330	41,047	41,274	39,137	37,566	41,445	50,564
Austria.....	122	147	170	170	170	155	166	196	123	111	92
Belgium.....	50	48	47	51	63	65	65	52	55	64	69
Bulgaria.....	35	35	42	47	59	37	19	12	9	10	11
Czech Republic.....	129	123	128	126	118	89	81	149	180	398	535
Denmark.....	113	135	111	129	138	133	111	146	149	164	185
Finland.....	146	204	229	211	193	225	221	338	373	385	397

Exports, imports, and gross revenue of office machinery, accounting, and computing machinery, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
France.....	4,480	4,820	5,357	5,678	5,976	6,211	6,071	5,460	5,017	5,368	6,692
Germany	7,452	7,719	7,797	8,222	8,100	8,434	10,039	7,870	6,975	7,143	7,762
Greece	99	86	50	57	53	65	103	92	22	6	3
Hungary	36	35	37	39	40	35	35	26	98	69	58
Ireland.....	3,551	3,959	4,885	5,764	6,572	6,887	6,498	6,912	7,050	8,156	12,092
Italy	7,220	7,419	7,523	4,925	5,114	4,436	4,077	4,585	4,380	5,042	5,486
Netherlands.....	1,463	1,452	1,204	1,122	1,150	1,193	1,227	1,155	1,069	1,269	1,529
Poland.....	82	87	92	99	100	78	54	49	76	75	140
Portugal	263	218	210	41	40	73	96	64	73	105	162
Romania.....	24	25	20	19	19	19	13	10	11	10	13
Slovakia	29	29	29	29	30	29	22	23	19	19	22
Spain	7,848	7,533	7,590	7,441	6,781	6,031	5,080	3,976	3,552	2,833	2,968
Sweden.....	977	976	989	970	1,023	1,009	1,159	937	647	617	596
United Kingdom.....	3,246	3,253	4,002	4,951	5,590	5,845	6,136	7,087	7,689	9,600	11,754
Asia.....	79,933	91,947	109,984	129,542	139,057	134,671	143,654	131,864	129,450	148,847	153,656
China	586	606	847	1,052	1,239	1,528	2,002	2,134	2,512	3,044	5,404
India.....	26	21	20	30	249	261	364	387	257	514	489
Indonesia	1	1	2	2	2	4	2	6	27	6	24
Japan.....	71,884	82,847	98,205	115,179	120,810	112,794	118,305	103,344	98,022	107,920	102,507
Malaysia	100	93	112	48	81	694	2,056	3,149	4,163	6,056	7,686
Philippines	7	8	14	14	41	7	11	19	108	131	175
Singapore.....	3,805	3,388	4,307	5,711	8,608	10,766	10,489	10,997	11,608	14,758	16,931
South Korea	474	881	1,500	1,862	2,060	2,144	2,263	2,354	2,950	3,934	5,695
Taiwan	3,050	4,100	4,976	5,642	5,962	6,427	8,071	9,301	9,644	12,470	14,742
Thailand.....	1	1	0	2	5	47	93	173	158	13	3
All others.....	3,955	4,474	5,079	5,529	5,997	6,093	6,370	6,471	8,209	9,770	10,777
Argentina	250	268	271	246	193	238	269	303	277	227	189
Australia.....	67	60	65	78	84	135	156	266	277	377	383
Brazil	1,056	1,500	1,792	1,776	1,984	1,482	1,482	1,801	2,238	2,362	1,962
Canada	133	150	234	368	422	452	557	650	913	1,461	1,894
Chile	0	0	0	0	0	0	0	0	0	0	0
Costa Rica.....	0	0	0	0	0	0	0	0	0	0	0
Egypt	2	0	0	9	3	1	4	0	4	4	1
Iran	5	4	3	3	2	3	3	7	6	8	7
Israel.....	129	138	113	107	114	97	92	126	169	208	342
Mexico	486	473	664	831	948	1,109	1,325	1,081	2,286	3,083	3,702
Morocco.....	32	21	18	19	20	27	28	25	25	34	32
Norway	234	267	278	275	265	226	147	149	131	137	150
Russia.....	537	526	569	620	776	815	763	599	456	442	439
Saudi Arabia.....	18	21	21	22	24	25	28	32	33	31	31
South Africa	11	16	13	14	12	12	10	9	9	9	10

Appendix table 6-18

(Page 5 of 5)

Exports, imports, and gross revenue of office machinery, accounting, and computing machinery, by selected region/country/economy: 1985–95

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Switzerland	872	895	906	1,029	1,015	1,308	1,317	1,210	1,141	1,173	1,364
Tunisia	5	4	2	2	3	4	6	6	6	7	7
Turkey	33	26	14	20	25	48	64	100	88	73	92
All others.....	85	102	116	110	105	112	118	105	149	135	171

EU = European Union

NOTES: Gross revenue represents total value of all domestic or international industry shipments. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. EU exports and imports exclude intra-EU exports and imports. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

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Science and Engineering Indicators 2008

Exports, imports, and gross revenue of office machinery, accounting, and computing machinery, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Exports										
All regions/countries/economies	163,446	208,262	244,924	302,488	372,459	369,950	390,707	463,676	559,008	637,811
United States	32,118	40,175	41,570	46,051	57,595	51,445	44,015	46,788	51,334	59,418
EU	16,597	21,843	27,672	35,630	45,834	45,836	42,059	42,632	48,263	56,404
Austria	286	387	528	705	960	1,174	1,541	1,561	1,983	2,473
Belgium	1,484	1,783	2,284	3,043	4,040	4,471	4,489	5,417	6,751	7,777
Bulgaria	13	16	10	9	13	14	23	36	37	36
Czech Republic	121	145	278	277	547	1,179	2,564	3,267	3,709	4,204
Denmark	470	651	695	853	978	947	1,226	1,378	1,479	1,513
Finland	462	642	783	800	457	401	359	386	432	475
France	4,963	6,282	7,979	8,712	10,111	9,131	7,850	7,353	8,489	9,267
Germany	6,052	7,565	10,269	12,478	16,142	17,014	17,357	20,378	26,387	28,369
Greece	16	25	33	66	80	79	69	69	83	93
Hungary	118	1,633	2,604	4,039	4,515	3,206	2,826	3,116	3,613	4,117
Ireland	5,675	8,093	11,647	15,101	18,543	21,696	18,076	19,124	22,775	25,973
Italy	2,790	2,599	2,902	3,248	3,272	3,145	2,737	2,737	3,058	3,077
Netherlands	7,781	11,671	16,206	20,696	23,344	23,460	22,338	25,957	31,320	35,639
Poland	42	30	58	74	94	92	110	120	145	178
Portugal	32	68	68	86	78	292	384	636	814	965
Romania	2	2	7	104	141	93	24	71	96	73
Slovakia	7	23	76	146	121	103	114	321	381	392
Spain	822	898	1,249	1,600	1,921	1,829	1,372	1,811	1,982	1,937
Sweden	519	566	614	673	725	954	1,133	1,285	1,450	1,419
United Kingdom	10,884	13,840	16,318	19,786	21,806	21,342	19,118	18,098	14,094	14,680
Asia	80,587	100,676	114,751	146,225	186,124	185,459	223,382	284,307	355,854	412,301
China	10,219	14,115	20,048	26,992	38,337	49,063	73,930	124,918	162,887	193,865
India	187	213	100	134	255	387	254	386	476	536
Indonesia	263	357	254	269	615	712	757	793	966	1,078
Japan	21,346	27,204	30,120	33,633	37,174	30,767	31,679	34,622	40,866	44,442
Malaysia	4,464	6,217	6,136	9,409	13,745	13,375	13,856	15,228	18,773	22,930
Philippines	1,567	2,450	2,835	3,228	4,303	5,278	5,712	6,192	7,292	7,784
Singapore	23,176	26,279	25,960	29,666	31,489	29,971	30,266	32,387	40,391	44,616
South Korea	3,512	4,801	5,532	11,410	20,483	16,840	22,876	27,344	30,227	34,049
Taiwan	13,391	16,313	20,994	27,749	34,440	33,476	37,284	34,757	44,036	51,168
Thailand	2,461	2,729	2,772	3,734	5,285	5,589	6,770	7,681	9,939	11,834
All others	8,204	10,492	13,993	17,717	20,853	22,425	19,601	19,460	22,742	23,436
Argentina	22	13	14	17	16	17	35	18	17	19
Australia	691	697	741	781	723	790	808	883	914	953
Brazil	196	207	263	454	470	375	250	314	402	445
Canada	2,958	3,310	4,025	4,001	4,823	4,223	2,982	3,135	3,789	3,986

Appendix table 6-19

Exports, imports, and gross revenue of office machinery, accounting, and computing machinery, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Chile	3	4	5	6	9	12	16	15	20	20
Costa Rica.....	1	1	158	225	262	330	451	387	601	753
Egypt	0	0	1	1	1	1	1	1	1	1
Iran	11	0	1	0	0	1	1	0	0	0
Israel.....	349	440	611	869	985	850	780	848	1,085	1,207
Mexico	2,843	4,434	6,488	9,092	11,305	13,757	12,710	12,126	13,971	14,012
Morocco.....	0	0	2	1	2	1	6	23	17	18
Norway	296	379	521	600	482	431	422	419	399	370
Russia.....	64	48	27	47	30	40	99	70	69	65
Saudi Arabia.....	58	57	14	2	4	7	7	43	38	35
South Africa	62	85	106	185	127	133	137	138	147	173
Switzerland.....	546	638	831	1,202	1,362	1,170	661	700	866	961
Tunisia	3	2	1	1	2	2	7	11	16	16
Turkey.....	9	17	28	49	50	47	38	46	60	68
All others.....	92	157	156	183	199	239	189	282	329	334
Imports										
All regions/countries/economies	165,749	212,684	258,557	325,083	397,131	395,655	425,510	505,030	619,103	704,855
United States.....	40,145	51,678	64,434	80,522	92,165	82,841	91,688	105,666	125,050	130,211
EU	43,534	55,472	69,698	83,681	96,841	96,891	97,479	119,421	155,328	173,940
Austria	1,141	1,376	1,701	2,275	2,540	2,754	2,663	3,388	4,139	4,376
Belgium	2,320	2,803	3,654	4,576	5,580	6,002	5,677	7,222	8,836	10,541
Bulgaria	37	37	68	116	124	159	154	250	313	384
Czech Republic	506	528	785	864	1,186	1,753	2,467	3,213	3,677	4,423
Denmark.....	1,356	1,698	1,802	2,243	2,388	2,316	2,651	3,195	3,723	4,314
Finland.....	929	1,209	1,533	1,858	1,670	1,870	1,842	2,289	2,635	2,845
France.....	7,814	9,787	12,173	13,705	15,953	15,749	14,529	16,698	20,507	22,633
Germany	13,593	17,070	21,536	26,865	29,279	31,248	31,822	36,832	41,887	46,184
Greece	274	344	505	800	834	763	802	1,045	1,255	1,278
Hungary	276	838	1,243	1,784	2,464	2,385	2,461	2,426	3,070	3,558
Ireland.....	3,263	5,234	7,030	7,981	10,059	10,470	10,006	10,082	11,578	13,569
Italy.....	4,082	4,615	5,844	7,312	8,290	8,050	8,418	9,290	10,526	10,913
Netherlands.....	10,463	14,761	19,898	24,242	26,213	27,657	26,598	34,043	40,821	45,337
Poland.....	576	759	1,130	1,404	1,727	1,864	1,802	2,044	2,467	3,091
Portugal	509	621	792	1,144	1,105	1,345	1,292	1,473	1,682	1,786
Romania.....	99	128	211	236	297	337	428	634	884	1,291
Slovakia	79	153	235	270	324	376	435	581	703	889
Spain	2,158	2,689	3,344	4,104	4,613	5,255	5,048	6,953	7,927	8,836
Sweden.....	1,964	2,364	3,376	3,073	3,337	3,305	3,373	3,827	4,320	4,793
United Kingdom.....	11,943	15,852	20,271	24,906	30,604	28,582	25,376	27,199	39,474	41,240

Exports, imports, and gross revenue of office machinery, accounting, and computing machinery, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Asia.....	40,538	50,546	54,808	76,978	110,084	114,182	137,178	173,261	216,406	262,918
China.....	7,570	10,778	14,276	18,534	28,438	36,779	48,846	72,104	90,482	112,704
India.....	448	644	753	1,103	1,751	1,761	1,967	2,630	3,700	5,301
Indonesia.....	190	276	168	233	638	668	806	845	953	1,068
Japan.....	11,169	12,286	12,366	18,601	26,971	25,375	26,580	31,888	37,405	42,862
Malaysia.....	3,419	4,702	5,059	6,299	7,579	8,380	11,190	14,077	17,481	21,349
Philippines.....	1,266	2,059	2,697	3,374	4,252	4,783	5,847	6,139	6,816	7,304
Singapore.....	8,114	10,008	10,491	13,348	16,092	15,030	16,706	17,617	22,076	25,388
South Korea.....	2,455	2,714	1,699	4,309	7,879	6,298	7,192	7,892	11,316	15,097
Taiwan.....	2,799	3,738	4,299	7,213	10,813	9,045	10,845	11,295	14,884	18,454
Thailand.....	3,108	3,342	3,001	3,965	5,672	6,064	7,197	8,774	11,293	13,392
All others.....	21,682	27,594	32,185	37,825	46,296	46,389	48,800	53,418	67,224	79,444
Argentina.....	636	845	1,108	1,168	1,297	983	232	587	936	1,223
Australia.....	2,602	3,165	3,511	4,289	4,951	4,401	4,942	6,152	8,149	9,994
Brazil.....	1,581	2,082	2,267	1,961	2,740	2,718	2,106	2,056	2,532	3,577
Canada.....	7,044	8,630	9,703	11,222	13,401	12,274	12,239	13,133	15,587	18,850
Chile.....	335	453	449	510	618	586	585	598	763	984
Costa Rica.....	62	92	234	283	312	373	495	404	586	751
Egypt.....	109	138	184	195	267	283	260	238	316	379
Iran.....	29	74	97	127	145	287	353	415	538	642
Israel.....	610	777	956	1,338	1,883	1,642	1,425	1,481	1,778	2,061
Mexico.....	2,184	3,230	3,632	4,656	6,269	8,042	11,351	11,048	14,144	15,304
Morocco.....	67	87	117	181	227	208	216	246	289	338
Norway.....	908	1,188	1,410	1,585	1,705	1,798	1,935	2,157	2,451	2,834
Russia.....	428	588	534	646	959	1,402	1,568	2,262	3,030	3,811
Saudi Arabia.....	142	199	274	351	404	520	513	639	702	849
South Africa.....	672	720	1,016	1,246	1,382	1,339	1,253	1,663	2,064	2,447
Switzerland.....	2,093	2,363	3,187	4,083	4,800	5,023	4,542	4,521	5,677	5,858
Tunisia.....	54	78	94	150	157	186	158	170	223	247
Turkey.....	373	601	739	991	1,519	837	1,071	1,460	2,136	2,689
All others.....	1,751	2,283	2,673	2,845	3,260	3,486	3,558	4,188	5,321	6,605
Revenue										
All regions/countries/economies.....	278,136	322,577	339,723	388,751	447,334	435,521	436,884	488,056	572,168	649,627
United States.....	41,945	58,726	75,052	91,908	107,881	101,091	96,699	100,041	101,235	117,762
EU.....	52,003	57,187	64,371	67,747	75,319	74,965	66,473	66,156	66,006	65,427
Austria.....	100	115	137	289	459	698	650	656	616	429
Belgium.....	87	95	96	101	174	147	105	84	77	105
Bulgaria.....	16	22	21	18	21	14	26	15	17	16
Czech Republic.....	407	271	180	327	462	1,051	1,580	1,303	2,169	3,191
Denmark.....	227	144	111	172	268	343	272	370	466	547
Finland.....	426	518	559	721	174	100	77	72	69	81

Exports, imports, and gross revenue of office machinery, accounting, and computing machinery, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
France.....	5,866	7,222	7,413	7,756	8,221	8,535	7,090	6,859	6,969	3,612
Germany	8,253	9,600	11,522	12,241	15,257	14,331	12,895	12,407	13,541	17,618
Greece	2	8	3	4	10	10	18	2	4	1
Hungary	416	1,217	1,768	2,401	2,829	2,652	2,826	2,956	3,150	3,431
Ireland.....	12,544	13,656	15,533	15,901	17,902	16,892	16,358	17,849	16,712	15,996
Italy	5,513	4,524	4,728	3,545	3,716	3,549	2,407	1,740	1,927	1,019
Netherlands.....	1,470	1,369	1,621	1,498	1,622	1,593	1,218	1,208	1,247	1,148
Poland.....	263	286	327	408	429	425	486	792	880	754
Portugal	194	309	304	379	323	278	242	239	220	195
Romania.....	17	19	13	10	11	13	13	15	15	15
Slovakia	20	16	19	26	31	38	53	65	76	87
Spain	3,148	2,884	3,173	3,002	2,728	1,914	1,111	725	564	587
Sweden.....	606	609	613	575	551	458	356	373	471	392
United Kingdom.....	12,428	14,301	16,229	18,372	20,130	21,924	18,688	18,428	16,817	16,202
Asia.....	172,460	192,214	183,902	210,396	240,102	235,891	251,641	301,059	382,061	441,718
China	10,876	14,998	24,162	38,063	46,640	68,613	91,521	142,334	214,748	269,949
India.....	472	628	483	583	489	432	446	496	517	317
Indonesia	32	15	13	9	13	18	40	53	67	45
Japan.....	111,792	119,805	104,035	102,074	103,543	85,233	71,938	67,055	69,013	64,554
Malaysia	6,908	7,159	5,792	6,591	7,451	6,543	5,701	5,201	4,965	5,764
Philippines	156	311	244	254	373	508	410	489	576	368
Singapore.....	18,004	20,112	18,310	20,248	24,423	20,053	20,280	21,699	23,725	28,569
South Korea	7,096	8,174	8,066	14,942	23,630	23,646	26,729	25,779	25,017	24,247
Taiwan	17,118	21,003	22,793	27,626	33,535	30,841	34,570	37,945	43,424	47,891
Thailand.....	4	6	5	4	6	6	6	7	10	14
All others.....	11,727	14,450	16,397	18,700	24,031	23,574	22,071	20,800	22,865	24,720
Argentina	193	220	221	155	177	139	99	162	190	218
Australia.....	372	597	687	687	740	782	953	1,086	1,063	1,201
Brazil	1,146	1,644	1,811	2,706	4,858	5,212	4,404	4,228	5,132	6,153
Canada	1,819	2,146	3,002	3,345	4,597	3,867	4,125	4,416	4,830	5,177
Chile	0	0	0	0	0	0	0	0	0	0
Costa Rica.....	0	1	1	1	1	1	1	2	2	3
Egypt	3	4	4	5	5	5	4	4	4	5
Iran	10	14	17	17	16	18	18	27	31	43
Israel.....	406	445	454	434	476	647	601	536	477	454
Mexico	5,399	6,939	7,591	7,978	9,670	9,610	8,939	7,363	7,842	8,029
Morocco.....	36	45	38	50	57	42	41	46	49	45
Norway	164	162	168	218	159	194	212	219	269	306
Russia.....	446	318	308	388	488	680	828	984	981	1,047
Saudi Arabia.....	31	36	40	45	49	57	57	64	66	65
South Africa	13	16	17	16	15	16	16	26	33	35

Exports, imports, and gross revenue of office machinery, accounting, and computing machinery, by selected region/country/economy: 1996–2005

(Millions of 2000 U.S. constant dollars)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Switzerland	1,376	1,437	1,590	1,783	2,115	1,897	1,281	1,045	1,078	937
Tunisia	8	8	8	9	11	12	16	21	23	26
Turkey	114	217	229	537	291	96	155	176	317	396
All others.....	191	201	210	328	306	297	321	395	477	578

EU = European Union

NOTES: Gross revenue represents total value of all domestic or international industry shipments. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. EU exports and imports exclude intra-EU exports and imports. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

Science and Engineering Indicators 2008

Appendix table 6-20

U.S. trade in advanced-technology products, by technology: 2000–06

(Millions of U.S. dollars)

Category	2000	2001	2002	2003	2004	2005	2006
Exports							
All technologies	223,415	200,107	178,627	179,787	201,454	215,606	252,569
Biotechnologies	1,729	1,615	2,131	2,863	3,743	4,592	5,163
Life sciences	11,951	12,840	11,859	13,002	14,516	16,494	18,756
Optoelectronics	4,113	3,403	2,431	2,467	3,506	4,637	5,064
Information and communications.....	76,132	65,180	51,998	51,500	57,403	61,885	66,842
Electronics	56,884	45,358	42,763	46,597	48,564	47,544	53,415
Flexible manufacturing	14,295	9,451	8,563	8,320	13,044	11,854	14,665
Advanced materials.....	2,651	2,310	1,089	1,037	1,137	1,155	1,401
Aerospace	52,748	56,917	53,255	49,433	54,377	62,738	81,217
Weapons	1,529	1,523	1,558	1,452	1,852	1,552	2,013
Nuclear technology.....	1,266	1,430	1,671	1,489	1,503	1,032	1,635
Computer software.....	118	80	1,311	1,628	1,808	2,123	2,399
Imports							
All technologies	195,660	195,265	196,100	207,196	238,478	259,969	290,848
Biotechnologies	1,136	1,294	1,872	2,184	1,967	4,219	4,873
Life sciences	16,211	20,113	25,950	30,937	32,799	30,390	33,737
Optoelectronics	5,823	5,608	5,437	5,255	7,795	12,174	19,575
Information and communications.....	91,039	94,435	99,985	109,133	131,549	146,083	160,016
Electronics	41,652	30,883	26,650	25,135	27,454	26,594	28,009
Flexible manufacturing	8,685	7,473	6,562	6,263	7,587	8,897	10,290
Advanced materials.....	2,707	2,436	1,485	1,511	1,794	1,804	2,171
Aerospace	25,733	30,511	25,213	22,773	23,833	25,531	27,584
Weapons	413	383	407	461	540	648	749
Nuclear technology.....	1,436	1,406	1,759	2,589	2,170	2,523	3,024
Computer software.....	826	724	781	955	990	1,105	821
Balance							
All technologies	27,755	4,842	-17,473	-27,410	-37,024	-44,363	-38,279
Biotechnologies	593	321	259	679	1,776	374	291
Life sciences	-4,260	-7,273	-14,092	-17,935	-18,283	-13,896	-14,981
Optoelectronics	-1,710	-2,205	-3,006	-2,788	-4,289	-7,537	-14,511
Information and communications.....	-14,907	-29,255	-47,987	-57,634	-74,147	-84,198	-93,173
Electronics	15,233	14,476	16,113	21,462	21,110	20,949	25,406
Flexible manufacturing	5,610	1,978	2,000	2,057	5,457	2,957	4,375
Advanced materials.....	-56	-126	-396	-474	-657	-649	-770
Aerospace	27,014	26,406	28,042	26,660	30,545	37,206	53,632
Weapons	1,116	1,140	1,151	990	1,313	903	1,264
Nuclear technology.....	-170	25	-88	-1,100	-667	-1,490	-1,389
Computer software.....	-708	-644	530	673	818	1,018	1,577

NOTE: Detail may not add to total because of rounding.

SOURCE: Census Bureau, Foreign Trade Division, special tabulations (2007).

Appendix table 6-21

(Page 1 of 3)

U.S. trade in advanced-technology products, by region/country/economy: 2000–06

(Millions of U.S. dollars)

Country/economy	2000	2001	2002	2003	2004	2005	2006
Exports							
Total	223,415	200,107	178,627	179,787	201,454	215,606	252,569
NAFTA partners	40,674	35,342	30,005	31,633	36,948	39,597	42,265
Canada	25,602	21,418	17,420	18,028	20,439	23,035	23,603
Mexico	15,072	13,924	12,585	13,605	16,509	16,562	18,662
Asia, selected	85,885	75,390	72,185	74,122	81,035	84,226	101,103
China	11,226	13,017	13,053	13,432	15,772	18,815	24,167
India	1,056	1,151	1,255	1,328	1,505	2,054	3,251
Indonesia	256	216	198	208	221	271	260
Japan	22,117	18,525	16,849	16,945	18,164	17,777	19,539
Malaysia	7,226	6,051	7,235	7,806	7,555	7,054	8,521
Philippines	5,537	4,935	4,966	5,852	4,836	4,416	4,906
Singapore	8,863	9,693	8,139	8,431	10,158	9,336	12,154
South Korea	13,486	9,928	9,599	9,570	10,341	11,403	14,108
Taiwan	12,645	9,033	9,172	8,226	9,952	10,005	10,330
Thailand	3,473	2,841	1,719	2,324	2,531	3,095	3,867
Europe, selected	67,618	61,206	50,615	50,395	57,046	58,822	65,338
Austria	624	564	709	424	532	628	705
Belgium	2,122	1,945	1,659	1,655	1,860	2,316	2,492
Czech Republic	355	322	334	269	337	435	471
Denmark	516	556	524	492	912	563	616
Federal Republic of Germany	12,408	12,377	9,342	9,307	9,340	10,679	12,966
Finland	725	602	595	422	478	558	546
France	9,222	8,677	8,509	6,672	9,166	9,243	10,050
Greece	593	606	549	457	1,066	303	536
Hungary	146	245	236	461	644	382	397
Ireland	3,901	3,578	2,823	3,286	3,735	4,200	4,025
Italy	3,136	2,744	3,131	3,147	2,903	2,572	2,721
Netherlands	9,547	7,805	7,262	8,413	9,152	9,651	10,103
Norway	588	551	457	408	380	516	617
Poland	264	215	180	189	225	333	818
Portugal	350	584	229	195	367	545	836
Slovakia	46	24	22	29	26	47	353
Slovenia	34	26	40	36	33	50	47
Spain	2,253	1,472	1,069	1,465	1,606	1,723	1,526
Sweden	2,285	1,399	1,213	1,206	1,048	1,064	1,456
Switzerland	1,810	1,437	1,142	1,028	1,163	1,374	1,377
United Kingdom	16,693	15,477	10,590	10,834	12,073	11,640	12,680
Latin America, selected	9,629	9,031	6,717	6,273	7,877	9,704	13,198
Argentina	1,395	1,015	224	442	606	866	958
Brazil	5,793	5,703	3,948	3,281	4,352	5,147	7,000
Chile	927	858	600	585	616	1,065	1,776
Costa Rica	438	485	1,075	1,287	1,124	1,209	1,488
Peru	318	279	289	302	324	359	520
Venezuela	758	691	581	376	855	1,058	1,456
Other, selected	9,431	7,976	8,984	7,519	7,580	7,992	10,401
Australia	3,743	3,043	4,711	4,046	3,345	3,437	4,227
Israel	2,738	2,604	2,026	1,852	2,774	2,685	2,949
Russia	445	390	430	368	411	448	532
South Africa	909	931	570	642	536	635	700
Turkey	1,596	1,008	1,247	611	514	787	1,993
All other countries	10,178	11,162	10,121	9,845	10,968	15,265	20,264
Imports							
Total	195,660	195,265	196,100	207,196	238,478	259,969	290,848
NAFTA partners	33,225	33,725	30,041	31,677	35,988	39,797	45,836
Canada	20,294	17,302	13,769	13,723	13,844	15,806	14,949
Mexico	12,932	16,423	16,272	17,955	22,144	23,991	30,887
Asia, selected	111,620	104,411	107,779	115,546	140,344	154,717	174,579
China	12,331	14,421	21,287	30,374	46,821	60,288	73,494

Appendix table 6-21

(Page 2 of 3)

U.S. trade in advanced-technology products, by region/country/economy: 2000–06

(Millions of U.S. dollars)

Country/economy	2000	2001	2002	2003	2004	2005	2006
India.....	143	200	199	253	319	456	693
Indonesia	1,145	1,399	1,265	1,076	1,123	1,104	917
Japan.....	34,816	27,880	23,744	22,386	23,877	24,591	25,839
Malaysia	12,777	14,052	15,150	16,384	18,204	22,659	25,105
Philippines	7,344	5,908	5,843	4,917	3,809	3,695	3,747
Singapore.....	11,046	10,081	10,043	10,408	10,805	9,259	9,804
South Korea	13,706	13,756	13,827	14,413	17,978	13,978	13,700
Taiwan	14,774	13,816	13,379	12,045	12,810	12,275	14,071
Thailand.....	3,538	2,899	3,042	3,290	4,598	6,414	7,210
Europe, selected.....	43,200	48,595	49,945	51,283	53,207	56,402	61,496
Austria	314	290	443	403	499	582	656
Belgium	974	1,368	1,296	987	1,520	1,099	1,981
Czech Republic	97	164	221	288	340	404	423
Denmark.....	456	494	494	602	756	878	890
Federal Republic of Germany.....	8,805	9,537	8,075	8,008	9,595	11,035	11,404
Finland.....	273	463	640	608	414	505	369
France.....	9,444	10,434	9,618	9,206	8,837	8,487	9,835
Greece	12	8	17	20	17	35	29
Hungary	1,241	886	1,085	1,288	1,248	1,393	1,178
Ireland.....	6,630	8,924	13,233	14,574	13,433	14,047	14,225
Italy.....	1,580	1,674	1,900	1,735	1,972	2,201	2,163
Netherlands.....	1,643	1,515	1,763	2,043	2,191	2,236	2,830
Norway	257	333	314	280	372	345	444
Poland.....	49	38	41	46	74	94	312
Portugal	34	254	312	428	543	669	803
Slovakia	3	4	7	9	9	13	13
Slovenia.....	5	5	15	22	25	16	21
Spain	231	256	368	752	701	552	594
Sweden.....	1,226	1,127	1,510	1,344	1,465	1,890	1,267
Switzerland.....	1,400	1,566	1,421	1,795	1,786	2,649	2,662
United Kingdom.....	8,527	9,256	7,173	6,847	7,412	7,271	9,399
Latin America, selected	2,344	3,674	3,908	3,908	3,942	3,750	2,941
Argentina	11	14	18	10	17	14	16
Brazil	1,930	2,927	2,961	2,686	2,809	2,599	1,730
Chile	2	3	4	3	6	4	8
Costa Rica.....	396	726	919	1,207	1,105	1,128	1,176
Peru	1	2	2	1	2	1	1
Venezuela	5	2	3	2	3	4	10
Other, selected	4,106	3,798	3,424	3,556	3,755	3,946	4,583
Australia.....	390	428	382	374	416	533	610
Israel.....	2,544	2,229	2,100	2,014	2,281	2,302	2,815
Russia.....	1,045	1,012	832	1,053	921	945	973
South Africa	28	23	28	32	30	31	26
Turkey.....	99	107	83	83	107	136	160
All other countries	1,165	1,063	1,004	1,226	1,243	1,358	1,413
Balance							
Total	27,755	4,842	-17,473	-27,409	-37,024	-44,363	-38,279
NAFTA partners	7,449	1,617	-36	-44	960	-200	-3,571
Canada	5,308	4,116	3,651	4,305	6,595	7,229	8,654
Mexico	2,140	-2,499	-3,687	-4,350	-5,635	-7,429	-12,225
Asia, selected	-25,735	-29,021	-35,594	-41,424	-59,309	-70,491	-73,476
China	-1,105	-1,404	-8,234	-16,942	-31,049	-41,473	-49,327
India.....	913	951	1,056	1,075	1,186	1,598	2,558
Indonesia	-889	-1,183	-1,067	-868	-902	-833	-657
Japan.....	-12,699	-9,355	-6,895	-5,441	-5,713	-6,814	-6,300
Malaysia	-5,551	-8,001	-7,915	-8,578	-10,649	-15,605	-16,584
Philippines	-1,807	-973	-877	935	1,027	721	1,159
Singapore.....	-2,183	-388	-1,904	-1,977	-647	77	2,350
South Korea	-220	-3,828	-4,228	-4,843	-7,637	-2,575	408

Appendix table 6-21

(Page 3 of 3)

U.S. trade in advanced-technology products, by region/country/economy: 2000–06

(Millions of U.S. dollars)

Country/economy	2000	2001	2002	2003	2004	2005	2006
Taiwan	-2,129	-4,783	-4,207	-3,819	-2,858	-2,270	-3,741
Thailand	-65	-58	-1,323	-966	-2,067	-3,319	-3,343
Europe, selected	24,418	12,611	670	-888	3,839	2,420	3,842
Austria	310	274	266	21	33	46	49
Belgium	1,148	577	363	668	340	1,217	511
Czech Republic	258	158	113	-19	-3	31	48
Denmark	60	62	30	-110	156	-315	-274
Federal Republic of Germany	3,603	2,840	1,267	1,299	-255	-356	1,562
Finland	452	139	-45	-186	64	53	177
France	-222	-1,757	-1,109	-2,534	329	756	215
Greece	581	598	532	437	1,049	268	507
Hungary	-1,095	-641	-849	-827	-604	-1,011	-781
Ireland	-2,729	-5,346	-10,410	-11,288	-9,698	-9,847	-10,200
Italy	1,556	1,070	1,231	1,412	931	371	558
Netherlands	7,904	6,290	5,499	6,370	6,961	7,415	7,273
Norway	331	218	143	128	8	171	173
Poland	215	177	139	143	151	239	506
Portugal	316	330	-83	-233	-176	-124	33
Slovakia	43	20	15	20	17	34	340
Slovenia	29	21	25	14	8	34	26
Spain	2,022	1,216	701	713	905	1,171	932
Sweden	1,059	272	-297	-138	-417	-826	189
Switzerland	410	-129	-279	-767	-623	-1,275	-1,285
United Kingdom	8,166	6,221	3,417	3,987	4,661	4,369	3,281
Latin America, selected	7,285	5,357	2,809	2,365	3,935	5,954	10,257
Argentina	1,384	1,001	206	432	589	852	942
Brazil	3,863	2,776	987	595	1,543	2,548	5,270
Chile	925	855	596	582	610	1,061	1,768
Costa Rica	42	-241	156	80	19	81	312
Peru	317	277	287	301	322	358	519
Venezuela	753	689	578	374	852	1,054	1,446
Other, selected	5,325	4,178	5,560	3,963	3,825	4,046	5,818
Australia	3,353	2,615	4,329	3,672	2,929	2,904	3,617
Israel	194	375	-74	-162	493	383	134
Russia	-600	-622	-402	-685	-510	-497	-441
South Africa	881	908	542	610	506	604	674
Turkey	1,497	901	1,164	528	407	651	1,833
All other countries	9,013	10,099	9,117	8,619	9,725	13,907	18,851

NAFTA = North American Free Trade Agreement

NOTE: Detail may not add to total because of rounding.

SOURCE: Census Bureau, Foreign Trade Division, special tabulations (March 2007).

Appendix table 6-22

U.S. receipts and payments of royalties and fees associated with affiliated and unaffiliated foreign companies: 1986–2005

(Millions of U.S. dollars)

Year	Receipts			Payments			Balance		
	All	Affiliated	Unaffiliated	All	Affiliated	Unaffiliated	All	Affiliated	Unaffiliated
1986.....	8,113	6,174	1,939	1,401	917	484	6,712	5,257	1,455
1987.....	9,914	7,629	2,285	1,844	1,296	547	8,070	6,333	1,738
1988.....	11,802	9,156	2,646	2,585	1,410	1,175	9,217	7,746	1,471
1989.....	13,064	10,207	2,857	2,602	1,778	824	10,462	8,429	2,033
1990.....	16,634	13,251	3,384	3,135	2,206	929	13,499	11,045	2,455
1991.....	18,107	14,395	3,712	4,076	2,996	1,080	14,031	11,399	2,632
1992.....	19,715	15,718	3,997	5,074	3,381	1,694	14,641	12,337	2,303
1993.....	20,323	15,707	4,616	4,765	3,364	1,401	15,558	12,343	3,215
1994.....	26,712	20,275	6,437	5,852	3,934	1,919	20,860	16,341	4,518
1995.....	30,289	22,859	7,430	6,919	5,257	1,663	23,370	17,602	5,767
1996.....	32,470	24,556	7,914	7,837	5,406	2,431	24,633	19,150	5,483
1997.....	33,639	24,876	8,763	9,614	7,202	2,412	24,025	17,674	6,351
1998.....	35,626	26,313	9,314	11,235	8,547	2,688	24,391	17,766	6,626
1999.....	39,670	29,275	10,395	13,107	10,374	2,733	26,563	18,901	7,662
2000.....	43,233	30,479	12,754	16,468	12,536	3,932	26,765	17,943	8,822
2001.....	40,696	29,164	11,532	16,538	13,241	3,297	24,158	15,923	8,235
2002.....	44,219	32,658	11,561	19,235	15,084	4,151	24,984	17,574	7,410
2003.....	48,277	35,924	12,303	20,049	16,407	3,642	28,228	19,517	8,661
2004.....	52,512	39,074	13,438	23,211	17,946	5,265	29,301	21,128	8,173
2005.....	57,410	42,106	15,304	24,501	20,360	4,141	32,909	21,746	11,163

NOTES: Affiliate is business enterprise located in one country directly or indirectly owned or controlled by entity in another country. Controlling interest must be $\geq 10\%$ of its voting stock or equivalent. Detail may not add to total because of rounding.

SOURCE: Bureau of Economic Analysis, U.S. International Services: Cross-Border Trade 1986–2005, and Sales Through Affiliates, 1986–2004, table 4, <http://www.bea.gov/international/intl.serv.htm>, accessed 28 June 2007.

Appendix table 6-23

U.S. receipts and payments of royalties and fees associated with manufacturing know-how and computer software of unaffiliated companies: 1998–2005

(Millions of dollars)

Year	Receipts				Payments				Balance			
	Total	Manufacturing know-how	Computer software	Other	Total	Manufacturing know-how	Computer software	Other	Total	Manufacturing know-how	Computer software	Other
1998.....	9,314	3,499	3,195	2,620	2,688	1,319	498	871	6,626	2,180	2,697	1,749
1999.....	10,395	3,900	3,702	2,793	2,733	1,568	517	648	7,662	2,332	3,185	2,145
2000.....	12,754	4,662	4,787	3,305	3,932	1,692	540	1,700	8,822	2,970	4,247	1,605
2001.....	11,532	4,174	4,532	2,826	3,297	1,720	452	1,125	8,235	2,454	4,080	1,701
2002.....	11,561	4,039	4,408	3,114	4,151	2,050	487	1,614	7,410	1,989	3,921	1,500
2003.....	12,303	4,617	4,105	3,581	3,642	2,358	676	608	8,661	2,259	3,429	2,973
2004.....	13,438	5,660	4,561	3,217	5,265	2,778	690	1,797	8,173	2,882	3,871	1,420
2005.....	15,304	6,633	5,470	3,201	4,141	2,747	667	727	11,163	3,886	4,803	2,474

NOTES: Affiliate is business enterprise located in one country directly or indirectly owned or controlled by entity in another country. Controlling interest must be $\geq 10\%$ of its voting stock or equivalent. Detail may not add to total because of rounding.

SOURCE: Bureau of Economic Analysis, *Survey of Current Business* 84(10):25–76 (2006).

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**U.S. receipts and payments of royalties and license fees generated from exchange and use of manufacturing know-how with unaffiliated foreign companies,
by selected region/country/economy: 1995–2005**

(Millions of U.S. dollars)

Region/country/economy	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Receipts											
All countries/economies.....	3,513	3,566	3,544	3,499	3,900	4,662	4,174	4,039	4,617	5,660	6,633
Asia.....	2,425	2,258	2,263	2,059	2,155	2,852	2,429	2,358	2,703	3,614	4,628
China.....	53	62	73	70	44	55	57	51	123	198	198
India.....	27	37	29	20	17	23	20	13	24	34	16
Japan.....	1,548	1,429	1,508	1,172	1,161	1,611	1,567	1,273	1,351	1,950	2,581
South Korea.....	607	478	389	483	650	895	506	613	756	1,002	1,246
Taiwan.....	80	130	144	192	187	196	190	336	340	327	405
All others.....	110	122	120	122	96	72	89	72	109	103	182
EU.....	756	937	885	1,071	1,283	1,313	1,297	1,232	1,269	1,374	1,340
France.....	84	123	92	142	226	153	198	193	155	151	155
Germany.....	171	219	184	243	297	373	332	389	470	467	383
Italy.....	66	66	77	53	117	106	79	101	87	71	86
Netherlands.....	36	80	71	59	45	54	31	26	38	30	36
Sweden.....	106	137	115	148	100	85	52	40	19	57	80
United Kingdom.....	115	129	147	154	216	156	192	236	265	289	224
All others.....	178	183	199	272	282	386	413	247	235	309	376
All other countries.....	332	371	396	369	462	497	448	449	645	672	665
Payments											
All countries/economies.....	948	1,319	1,417	1,319	1,568	1,692	1,720	2,050	2,358	2,778	2,747
Asia.....	330	392	521	473	NA	491	434	435	425	510	429
China.....	NA	NA	NA	NA	15	8	2	6	NA	29	23
India.....	0	D	D	0	1	0	2	2	1	0	2
Japan.....	307	308	360	374	550	460	411	419	385	461	385
South Korea.....	D	D	D	D	22	19	D	5	D	15	8
Taiwan.....	0	2	4	0	7	2	1	1	1	3	D
All others.....	NA	NA	NA	NA	NA	2	NA	2	D	NA	NA
EU.....	461	649	558	555	578	694	816	1,131	1,354	1,442	1,673
France.....	121	192	D	D	D	133	D	273	302	D	524
Germany.....	110	148	149	124	148	210	D	224	214	230	218
Italy.....	9	49	35	18	6	12	10	8	15	11	4
Netherlands.....	27	24	30	33	37	33	28	27	128	154	142
Sweden.....	3	49	61	55	57	69	70	108	D	D	D
United Kingdom.....	126	135	118	146	147	162	172	204	210	240	287
All others.....	65	52	NA	NA	D	75	NA	287	NA	NA	NA
All other countries.....	157	278	338	291	NA	507	470	484	579	826	645
Balance											
All countries/economies.....	2,565	2,247	2,127	2,180	2,332	2,970	2,454	1,989	2,259	2,882	3,886
Asia.....	2,095	1,866	1,742	1,586	NA	2,361	1,995	1,923	2,278	3,104	4,199
China.....	26	NA	NA	NA	29	47	55	45	NA	169	175
India.....	27	NA	NA	20	16	23	18	11	23	34	14

**U.S. receipts and payments of royalties and license fees generated from exchange and use of manufacturing know-how with unaffiliated foreign companies,
by selected region/country/economy: 1995–2005**

(Millions of U.S. dollars)

Region/country/economy	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Japan.....	1,241	1,121	1,148	798	611	1,151	1,156	854	966	1,489	2,196
South Korea	NA	NA	NA	NA	628	876	NA	608	NA	987	1,238
Taiwan	80	128	140	192	180	194	189	335	339	324	NA
All others.....	NA	NA	NA	NA	NA	70	NA	70	NA	NA	NA
EU	295	288	327	516	705	619	481	101	-85	-68	-333
France.....	-37	NA	NA	NA	NA	20	NA	-80	-147	NA	-369
Germany	61	71	35	119	149	163	NA	165	256	237	165
Italy	57	17	42	35	111	94	69	93	72	60	82
Netherlands.....	9	56	41	26	8	21	3	-1	-90	-124	-106
Sweden.....	103	88	54	93	43	16	-18	-68	NA	NA	NA
United Kingdom.....	-11	-6	29	8	69	-6	20	32	55	49	-63
All others.....	113	NA	NA	NA	NA	311	NA	-40	NA	NA	NA
All other countries	175	93	58	78	NA	-10	-22	-35	66	-154	20

NA = not available; D = suppressed to avoid disclosure of confidential information

EU = European Union

NOTES: Industrial processes (or manufacturing know-how) include patents and other proprietary inventions and technology. Affiliate is business enterprise located in one country directly or indirectly owned or controlled by entity in another country. Controlling interest must equal $\geq 10\%$ of its voting stock or equivalent. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and other unspecified countries. China includes Hong Kong. EU includes Belgium, Denmark, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, and United Kingdom; beginning in 1995, it also includes Austria, Finland, and Sweden; and beginning in 2004, it also includes Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Slovakia, and Slovenia.

SOURCE: Bureau of Economic Analysis, *Survey of Current Business* 84(10):25–76 (2006).

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Appendix table 6-25

(Page 1 of 2)

U.S. receipts and payments of royalties and license fees generated from exchange and use of computer software with unaffiliated foreign companies, by selected region/country/economy: 1998–2005

(Millions of U.S. dollars)

Region/country/economy	1998	1999	2000	2001	2002	2003	2004	2005
Receipts								
All countries/economies.....	3,195	3,702	4,787	4,532	4,408	4,105	4,561	5,470
Asia.....	1,183	D	1,822	1,936	2,054	1,896	NA	2,797
China.....	65	71	128	137	164	NA	NA	NA
India.....	17	D	22	31	25	27	31	55
Japan.....	724	D	1,126	1,262	1,402	1,302	1,540	1,703
South Korea.....	D	185	D	237	240	186	206	269
Taiwan.....	215	229	D	177	169	230	D	D
All others.....	NA	NA	NA	NA	54	NA	NA	NA
EU.....	1,348	1,587	2,004	1,721	1,571	1,396	1,402	1,658
France.....	153	163	263	238	219	180	85	112
Germany.....	444	503	603	565	526	526	633	728
Italy.....	116	112	130	103	106	100	108	96
Netherlands.....	64	69	110	83	89	70	70	77
Sweden.....	D	53	56	58	39	27	27	31
United Kingdom.....	319	446	553	494	411	325	313	393
All others.....	NA	241	289	180	181	168	166	221
All other countries.....	664	NA	961	875	783	NA	NA	1,015
Payments								
All countries/economies.....	498	517	540	452	487	676	690	667
Asia.....	NA	D	29	NA	9	NA	15	NA
China.....	NA	NA	NA	NA	3	NA	NA	NA
India.....	0	0	0	0	3	D	7	4
Japan.....	26	18	16	D	2	3	2	3
South Korea.....	0	D	1	0	0	0	0	0
Taiwan.....	1	D	1	D	1	D	D	0
All others.....	NA	NA	NA	NA	0	NA	NA	NA
EU.....	446	454	479	416	444	594	620	575
France.....	D	D	D	D	D	D	D	D
Germany.....	76	41	59	13	19	D	16	18
Italy.....	3	4	D	0	0	0	0	1
Netherlands.....	D	D	3	1	1	D	D	D
Sweden.....	D	3	3	2	2	9	D	3
United Kingdom.....	38	58	D	44	26	148	82	67
All others.....	NA	NA	NA	NA	NA	NA	NA	NA
All other countries.....	NA	NA	32	NA	34	NA	55	NA
Balance								
All countries/economies.....	2,697	3,185	4,247	4,080	3,921	3,429	3,871	4,803
Asia.....	NA	NA	1,793	NA	2,045	NA	NA	NA
China.....	NA	NA	NA	NA	161	NA	NA	NA
India.....	17	NA	22	31	22	NA	24	51
Japan.....	698	NA	1,110	NA	1,400	1,299	1,538	1,700
South Korea.....	NA	NA	NA	237	240	186	206	269
Taiwan.....	214	NA	NA	NA	168	NA	NA	NA
All others.....	NA	NA	NA	NA	54	NA	NA	NA

Appendix table 6-25

(Page 2 of 2)

U.S. receipts and payments of royalties and license fees generated from exchange and use of computer software with unaffiliated foreign companies, by selected region/country/economy: 1998–2005

(Millions of U.S. dollars)

Region/country/economy	1998	1999	2000	2001	2002	2003	2004	2005
EU	902	1,133	1,525	1,305	1,127	802	782	1,083
France.....	NA	NA	NA	NA	NA	NA	NA	NA
Germany	368	462	544	552	507	NA	617	710
Italy.....	113	108	NA	103	106	100	108	95
Netherlands.....	NA	NA	107	82	88	NA	NA	NA
Sweden.....	NA	50	53	56	37	18	NA	28
United Kingdom.....	281	388	NA	450	385	177	231	326
All others.....	NA	NA	NA	NA	NA	NA	NA	NA
All other countries	NA	NA	929	NA	749	NA	NA	NA

D = suppressed to avoid disclosure of confidential information; NA = not available

EU = European Union

NOTES: Computer software includes rights to distribute and use general-use software. Affiliate is business enterprise located in one country directly or indirectly owned or controlled by entity in another country. Controlling interest must equal $\geq 10\%$ of its voting stock or equivalent. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and other unspecified countries. China includes Hong Kong. EU includes Belgium, Denmark, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, and United Kingdom; beginning in 1995, it also includes Austria, Finland, and Sweden; and beginning in 2004, it also includes Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Slovakia, and Slovenia.

SOURCE: Bureau of Economic Analysis, *Survey of Current Business* 84(10):25–76 (2006).*Science and Engineering Indicators 2008*

Appendix table 6-26

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Leading indicators of technological competitiveness for developing countries/economies: Selected years, 1993–2007

(U.S. = 100)

Country/economy	National orientation	Socioeconomic infrastructure	Technological infrastructure	Productive capacity	Overall
1993					
Larger economies					
Brazil.....	90.9	65.6	47.5	53.6	62.9
China	89.0	55.2	44.2	36.9	54.5
Hungary	95.4	64.2	47.4	40.9	60.0
India.....	74.9	55.2	37.7	43.0	51.4
Indonesia	89.3	58.9	28.9	27.7	48.9
Mexico	68.4	56.8	28.8	30.2	44.7
Russia.....	46.5	46.9	66.7	35.5	49.0
Smaller economies					
Argentina	64.3	75.2	29.1	35.8	50.1
Malaysia.....	116.0	75.8	39.1	52.9	68.4
Philippines.....	61.7	68.5	28.7	38.8	48.5
South Africa.....	106.3	82.9	26.3	47.9	63.4
Thailand	96.5	60.7	30.6	37.2	53.9
1996					
Larger economies					
Brazil.....	76.8	62.4	39.4	45.0	54.7
China	86.4	52.6	41.4	36.6	52.8
India.....	76.0	54.1	41.5	54.9	55.6
Indonesia	72.6	41.3	18.8	21.9	36.9
Mexico	72.6	53.5	31.9	35.5	47.1
Russia.....	64.7	59.5	58.7	47.6	57.3
Smaller economies					
Argentina	54.9	58.0	28.9	34.6	43.3
Hungary	88.6	56.0	38.4	44.5	55.3
Malaysia.....	107.2	73.6	33.6	48.2	63.4
Philippines.....	99.5	74.5	37.6	51.7	63.9
Poland.....	91.8	63.6	37.0	43.7	57.3
South Africa.....	65.1	60.0	42.5	33.5	49.4
Thailand.....	84.1	57.3	29.7	37.0	50.3
Venezuela.....	59.6	56.0	29.5	28.0	42.3
1999					
Larger economies					
Brazil.....	78.4	56.4	42.0	44.9	54.5
China	83.5	60.5	48.3	46.5	58.8
India.....	87.4	57.4	50.2	59.4	62.7
Indonesia	70.3	48.5	19.0	26.3	39.7
Mexico	53.3	46.5	22.7	28.1	36.8
Russia.....	62.3	60.2	52.5	40.4	53.6
Smaller economies					
Argentina	52.7	61.2	28.7	35.2	43.8
Hungary	95.0	70.6	45.3	48.9	63.6
Malaysia.....	88.8	66.9	32.3	50.1	58.1
Philippines.....	81.4	63.9	22.8	41.7	50.9
Poland.....	81.5	65.5	41.3	47.6	57.9
South Africa.....	64.0	61.6	42.1	32.5	49.5

Appendix table 6-26

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Leading indicators of technological competitiveness for developing countries/economies: Selected years, 1993–2007

(U.S. = 100)

Country/economy	National orientation	Socioeconomic infrastructure	Technological infrastructure	Productive capacity	Overall
Thailand	64.7	53.4	21.3	34.8	42.4
Venezuela.....	51.3	59.4	19.4	28.4	38.8
2003					
Larger economies					
Brazil.....	65.8	58.4	38.2	43.2	51.0
China	78.9	63.7	59.5	59.9	65.2
India.....	78.3	57.1	39.8	57.8	57.5
Indonesia	56.5	45.3	22.3	33.4	38.8
Mexico	69.1	56.7	30.9	42.8	49.2
Russia.....	60.8	69.9	55.2	56.2	60.4
Smaller economies					
Argentina	56.2	60.6	33.5	39.2	47.0
Hungary	83.5	78.6	43.1	50.9	63.4
Malaysia.....	91.5	75.2	31.1	47.3	60.3
Philippines.....	74.3	63.7	25.8	54.3	53.6
Poland.....	79.8	79.1	39.5	51.4	61.8
South Africa.....	67.3	56.9	38.7	36.8	49.5
Thailand.....	59.8	62.8	25.7	37.4	45.9
Venezuela.....	46.6	53.2	21.0	24.5	36.0
2005					
Larger economies					
Brazil.....	75.2	60.9	40.1	55.5	57.3
China	93.8	71.8	70.4	81.7	79.0
India.....	77.7	62.7	47.0	67.6	63.2
Indonesia	55.8	48.5	26.2	46.4	43.7
Mexico	69.5	57.9	33.1	51.6	52.3
Russia.....	53.0	70.3	47.7	50.8	55.3
Smaller economies					
Argentina	60.1	63.4	32.7	48.0	50.5
Hungary	77.9	78.7	44.0	57.9	63.9
Malaysia.....	95.1	83.7	34.2	58.1	66.5
Philippines.....	67.1	62.8	33.9	58.9	55.1
Poland.....	78.0	77.9	37.1	61.5	62.8
South Africa.....	63.8	62.8	39.7	46.5	52.7
Thailand.....	74.1	63.2	27.2	47.9	52.2
Venezuela.....	46.1	56.8	29.5	43.4	43.6
2007					
Larger economies					
Brazil.....	70.6	57.2	38.3	49.7	53.1
China	80.2	69.7	62.9	91.2	75.8
India.....	82.9	62.7	46.5	67.6	64.1
Indonesia	70.4	55.1	32.2	49.8	50.9
Mexico	75.6	57.7	36.1	57.2	55.7
Russia.....	73.9	74.5	50.1	53.5	62.3
Smaller economies					
Argentina	59.4	69.4	34.8	47.8	52.2
Hungary	73.2	76.2	38.7	56.2	60.2
Malaysia.....	97.4	77.3	33.5	62.4	66.0
Philippines.....	70.1	62.5	26.4	50.4	51.3

Appendix table 6-26

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Leading indicators of technological competitiveness for developing countries/economies: Selected years, 1993–2007

(U.S. = 100)

Country/economy	National orientation	Socioeconomic infrastructure	Technological infrastructure	Productive capacity	Overall
Poland.....	83.4	81.1	37.1	56.0	63.1
South Africa.....	70.8	61.7	39.5	43.2	52.9
Thailand.....	81.6	69.6	27.1	46.5	54.7
Venezuela.....	42.9	46.2	23.5	34.5	36.3

NOTES: Developing countries classified as low or middle income by World Bank. Larger economies have 2004 gross domestic product (GDP) \geq \$750 billion expressed in 1990 purchasing power parities (PPPs). Smaller economies have 2004 GDP \leq \$750 billion expressed in 1990 PPPs. High-technology indicators previously based on most recent full year of statistical data, but now based on year of data generation and year in which panel of experts rated countries. For score and indicator calculations, raw data transformed into scales of 0–100 for each indicator component and then averaged to generate comparable indicators with a 0–100 range. For survey items, 100 represents highest response category for each question; for statistical data, 100 typically represents value attained by country with largest value among 33 countries included in study. In indicator formulations cited below, each term carries equal weight.

National orientation (NO) provides evidence that a nation is taking directed action to achieve technological competitiveness. These actions could take place in business, government, or cultural sector or any combination of the three.

Indicator formulation: $NO = [(Q1 + (Q2 + Q3)/2 + Q4 + F1V2002)]/4$.

Data used: Published data from PRS Group, Political and Economic Forecast table, Political Risk Letter for 2002 rating each country's investment risk (F1V2002); and survey data assessing each country's national strategy to promote high-technology development (Q1), social influences favoring technological change (Q2 and Q3), and entrepreneurial spirit (Q4).

Socioeconomic infrastructure (SE) assesses social and economic institutions that support and maintain physical, human, organizational, and economic resources essential to functioning of a modern, technology-based industrial nation.

Indicator formulation: $SE = (Q5 + Q10 + HMHS2000)/3$.

Data used: Published data on percentage of students enrolled in secondary (net percentage) and tertiary (gross percentage) education (HMHS2000) from Harbison-Myers Skills Index for 2000, Gross and Net Enrollment Ratio at Secondary Level by Country and by Gender for school years 1998/1999 and 1999/2000, Institute for Statistics, United Nations Educational, Scientific, and Cultural Organization (UNESCO), October 2002 and Gross Enrollment Ratio at Tertiary Level by Country and Gender for academic years 1998/1999 and 1999/2000, Institute for Statistics, UNESCO, October 2002; and survey data assessing each country's efforts to attract foreign investment (Q10) and mobility of capital (Q5).

Technological infrastructure (TI) assesses the institutions and resources that contribute to a nation's capacity to develop, produce, and market new technology.

Indicator formulation: $TI = [(Q7 + Q8)/2 + Q9 + Q11 + EDP2002 + S\&E2000]/5$.

Data used: Published data from Science and Technology, Personnel Engaged in R&D by Category of Personnel (new available data for 1996–2000), Institute for Statistics, UNESCO, November 2002, on number of scientists and engineers involved in research in 2000 (S&E 2000), national purchases of electronic data-processing equipment (EDP2002) from Reed Electronics Research, Yearbook of World Electronics Data 2002/2003, Reed Business Information Ltd. (2002); and survey data assessing linkages of R&D to industry (Q9), output of indigenous academic S&E (Q7 and Q8), and ability to make effective use of technological knowledge (Q11).

Productive capacity (PC) assesses physical and human resources devoted to manufacturing products and efficiency employing those resources.

Indicator formulation: $PC = (Q6 + Q12 + Q13 + A262002)/4$.

Data used: Published data on electronics production (A262002) from Reed Electronics Research, Yearbook of World Electronics Data 2002/2003, Reed Business Information Ltd. (2002); and survey data assessing the supply and quality of skilled labor (Q6), capability of indigenous management (Q13), and existence of indigenous suppliers of components for technology-intensive products (Q12).

Composite indicator is sum of $NO + SE + TI + PC$.

SOURCE: Georgia Institute of Technology, Technology Policy and Assessment Center, High Tech Indicators: Technology-Based Competitiveness of 33 Nations. 2007 Final Report to National Science Foundation, Division of Science Resources Statistics (2007).

Appendix table 6-27

All and industry U.S. S&E articles, by field: 1988–2005

Field	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All articles.....	169,131	177,958	182,469	185,035	189,880	188,434	191,457	194,255	192,790	189,477	189,813	190,390	188,125	193,066	187,400	202,475	192,913	214,557
Agricultural sciences	4,070	4,044	4,311	4,455	3,887	3,860	3,909	3,648	3,346	3,605	3,464	2,804	3,640	3,203	3,924	3,903	3,526	3,561
Astronomy.....	1,754	1,783	1,900	1,912	2,088	2,025	2,421	2,483	2,651	2,557	1,932	2,829	2,566	2,697	2,996	2,719	2,874	2,853
Biological sciences	44,890	48,232	49,792	50,531	51,874	51,770	52,711	54,076	53,301	51,718	52,076	51,443	50,997	52,696	50,108	52,981	51,502	55,502
Chemistry.....	13,186	13,398	13,990	14,681	14,647	15,089	14,577	14,915	15,219	14,375	14,414	14,491	14,560	14,342	14,043	15,763	15,110	17,138
Computer sciences.....	1,402	1,691	1,615	1,676	1,748	1,900	2,033	1,914	1,923	1,929	1,952	2,008	2,075	2,083	1,999	2,254	2,173	2,390
Engineering.....	11,001	11,007	12,118	11,798	13,457	12,103	12,691	12,636	11,702	11,760	11,815	12,312	11,637	12,560	12,475	13,467	12,671	14,455
Geosciences.....	7,637	8,180	8,412	8,567	8,533	9,271	9,114	9,821	9,904	9,214	9,820	9,873	9,779	10,065	9,204	11,486	10,436	11,112
Mathematics.....	3,880	3,990	3,304	3,382	3,538	3,453	3,346	3,190	3,272	3,051	3,483	3,561	3,758	3,657	3,556	3,760	3,562	3,922
Medical sciences.....	44,968	47,497	48,102	48,180	50,229	49,991	51,038	51,943	51,404	52,146	52,402	52,550	51,886	53,437	51,384	56,128	53,541	60,130
Other life sciences.....	1,853	1,911	1,975	1,972	1,962	2,202	2,218	2,338	2,811	3,009	3,009	2,876	2,942	3,146	2,958	2,964	2,699	3,670
Physics.....	18,023	19,067	19,196	20,515	20,158	19,602	20,427	19,709	18,906	18,048	17,966	18,074	16,897	17,385	17,301	18,657	17,653	20,551
Psychology.....	7,171	7,088	7,587	7,194	7,626	6,986	7,184	7,830	8,258	8,130	7,736	7,806	7,499	7,809	7,691	7,892	7,410	8,482
Social sciences.....	9,296	10,069	10,167	10,172	10,134	10,182	9,788	9,751	10,094	9,935	9,745	9,763	9,888	9,985	9,763	10,501	9,754	10,790
Industry articles.....	14,271	14,580	15,538	16,170	16,155	15,614	16,022	15,671	14,822	13,988	13,894	14,030	13,644	13,839	13,287	14,184	12,988	13,489
Agricultural sciences	222	237	309	302	263	227	319	289	228	240	234	199	251	261	260	231	220	219
Astronomy.....	50	53	43	60	43	49	63	64	48	51	54	57	57	53	68	55	38	46
Biological sciences	2,770	2,975	3,370	3,616	3,668	3,785	3,984	4,228	3,893	3,656	3,626	3,600	3,583	3,518	3,279	3,498	3,145	3,306
Chemistry.....	2,288	2,213	2,305	2,444	2,352	2,506	2,486	2,423	2,341	2,012	1,842	1,948	1,806	1,749	1,828	2,123	2,100	1,940
Computer sciences.....	344	403	362	358	361	428	427	399	390	433	445	448	481	461	442	409	342	365
Engineering.....	2,818	2,627	2,920	2,942	2,944	2,699	2,833	2,664	2,405	2,342	2,355	2,404	2,307	2,280	2,222	2,378	1,909	2,080
Geosciences.....	522	642	591	701	701	654	724	681	610	636	610	638	552	657	556	570	556	556
Mathematics.....	161	132	132	108	140	129	113	104	100	89	126	126	121	125	114	106	88	88
Medical sciences.....	1,364	1,585	1,640	1,708	1,831	1,887	2,026	2,078	2,077	2,130	2,220	2,282	2,314	2,428	2,433	2,607	2,601	2,820
Other life sciences.....	77	91	73	82	91	99	98	112	105	151	150	156	141	148	154	145	136	188
Physics.....	3,221	3,255	3,358	3,457	3,319	2,745	2,568	2,237	2,184	1,815	1,884	1,806	1,678	1,810	1,648	1,771	1,581	1,565
Psychology.....	150	117	129	134	174	166	176	170	190	166	145	168	163	177	143	132	130	168
Social sciences.....	284	251	305	258	268	241	206	221	252	269	204	201	190	170	139	158	142	149

NOTE: Article counts based on fractional counts and an expanding journal set.

SOURCES: Thomson ISI, Science Citation Index and Social Sciences Citation Index, <http://www.isinet.com/products/citation/>; iPLQ, Inc.; and National Science Foundation, Division of Science Resources Statistics, special tabulations.

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Appendix table 6-28

All and industry U.S. S&E basic research articles, by field: 1988–2005

Field	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All articles.....	56,242	59,771	61,064	61,929	64,384	64,680	65,345	67,723	66,610	64,551	65,060	65,338	65,417	66,202	64,560	69,438	66,252	72,020
Agricultural sciences	0	0	0	0	0	0	0	0	0	0	0	0	7	4	7	3	1	6
Astronomy.....	1,754	1,783	1,900	1,912	2,088	2,025	2,421	2,483	2,616	2,498	1,868	2,782	2,516	2,634	2,927	2,672	2,811	2,808
Biological sciences.....	27,503	29,422	30,170	30,445	31,849	31,820	32,249	33,417	32,665	31,892	32,319	31,585	31,723	32,635	31,213	32,854	32,035	33,714
Chemistry.....	6,553	6,611	7,100	7,374	7,561	7,977	7,490	7,854	7,986	7,212	7,532	7,681	7,845	7,648	7,756	8,333	7,915	8,872
Computer sciences.....	6	12	5	7	32	38	42	44	30	29	26	36	55	66	45	35	39	28
Engineering.....	199	283	257	237	301	376	550	536	441	458	544	439	504	492	534	712	714	746
Geosciences.....	2,780	2,981	3,306	3,266	3,115	3,513	3,380	3,817	3,828	3,433	3,744	3,689	3,549	3,654	3,187	4,720	3,888	4,072
Mathematics.....	1,912	1,990	1,434	1,501	1,626	1,531	1,472	1,417	1,511	1,536	1,625	1,736	1,861	1,904	1,867	1,862	1,777	1,803
Medical sciences.....	4,176	4,790	5,008	5,373	5,878	5,644	5,916	6,271	6,343	6,717	6,391	6,611	6,668	6,438	6,231	6,936	6,767	7,211
Other life sciences.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Physics.....	9,711	10,404	10,243	10,456	10,412	10,447	10,686	10,595	9,933	9,654	9,891	9,665	9,652	9,568	9,775	10,113	9,272	11,523
Psychology.....	1,507	1,406	1,467	1,245	1,407	1,140	960	1,154	1,092	1,023	985	977	902	1,005	886	1,030	913	1,082
Social sciences.....	141	91	175	111	115	169	179	136	162	99	134	138	133	156	132	168	120	154
Industry articles.....	3,458	3,452	3,754	3,824	3,931	4,052	4,057	4,151	3,653	3,367	3,305	3,358	3,228	3,191	3,059	3,296	2,886	2,910
Agricultural sciences	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
Astronomy.....	50	53	43	60	43	49	63	64	46	49	52	53	53	49	65	53	36	45
Biological sciences.....	1,463	1,480	1,749	1,838	1,870	1,939	1,972	2,117	1,786	1,734	1,641	1,703	1,610	1,609	1,459	1,523	1,246	1,278
Chemistry.....	665	666	716	704	769	921	967	979	885	780	800	892	777	756	846	937	952	900
Computer sciences.....	1	3		1	5	3	7	8	4	6	6	11	20	16	10	11	9	7
Engineering.....	27	18	17	22	23	41	67	58	64	54	96	51	65	69	57	93	66	78
Geosciences.....	116	115	139	127	142	139	117	146	138	130	142	134	115	132	105	150	115	111
Mathematics.....	27	24	25	25	30	19	22	19	19	19	18	22	26	36	26	19	20	16
Medical sciences.....	94	128	106	169	193	198	211	217	226	211	203	168	184	163	143	180	148	151
Other life sciences.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Physics.....	998	954	934	862	835	721	618	535	472	367	335	311	366	346	341	316	282	312
Psychology.....	12	8	12	12	17	14	8	6	10	13	11	11	10	10	4	7	10	10
Social sciences.....	4	3	13	5	5	8	5	2	2	3	2	3	1	4	3	7	3	2

NOTE: Article counts based on fractional counts and an expanding journal set.

SOURCES: Thomson ISI, Science Citation Index and Social Sciences Citation Index, <http://www.isinet.com/products/citation/>; iPLQ, Inc.; and National Science Foundation, Division of Science Resources Statistics, special tabulations.

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Appendix table 6-29

S&E articles with industry authors, by institutional author type: 1988–2005

Year	All articles	Single company/ single author	Single company/ multiple authors	Multiple companies	Multiple sectors	International
1988.....	19,213	3,601	5,778	1,217	6,970	1,647
1989.....	19,973	3,472	5,909	1,299	7,422	1,871
1990.....	21,583	3,643	6,181	1,367	8,163	2,229
1991.....	22,748	3,710	6,228	1,546	8,625	2,639
1992.....	23,337	3,505	5,928	1,658	9,303	2,943
1993.....	22,959	3,282	5,617	1,587	9,280	3,193
1994.....	24,010	3,351	5,458	1,677	9,971	3,553
1995.....	24,142	2,992	5,190	1,716	10,361	3,883
1996.....	23,516	2,694	4,759	1,572	10,288	4,203
1997.....	22,797	2,398	4,383	1,385	10,369	4,262
1998.....	23,049	2,452	4,073	1,442	10,520	4,562
1999.....	23,578	2,384	4,072	1,356	10,829	4,937
2000.....	23,315	2,275	3,873	1,393	10,532	5,242
2001.....	24,157	2,230	3,813	1,382	11,126	5,606
2002.....	23,323	1,931	3,696	1,337	10,824	5,535
2003.....	25,145	1,925	4,121	1,507	11,426	6,166
2004.....	23,256	1,614	3,682	1,519	10,665	5,776
2005.....	25,148	1,581	3,615	1,446	11,888	6,618

NOTES: Article counts based on whole counts and an expanding journal set. Articles classified by year they entered database rather than year of publication.

SOURCES: Thomson Scientific, Science Citation Index and Social Sciences Citation Index, <http://www.scientific.thomson.com/products/categories/citation/>; iPLQ, Inc.; and National Science Foundation, Division of Science Resources Statistics, special tabulations.

Appendix table 6-30

Industry coauthored S&E articles, by sector of coauthorship: 1988–2005

Year	Coauthored articles	Academic institutions	Industries	Federal government	Private nonprofits	FFRDCs	State/local governments
1988.....	9,834	6,057	1,956	1,314	861	474	174
1989.....	10,592	6,458	2,010	1,434	1,008	495	190
1990.....	11,759	7,198	2,261	1,544	1,142	623	216
1991.....	12,810	7,809	2,629	1,679	1,151	568	222
1992.....	13,904	8,413	2,810	1,870	1,392	665	274
1993.....	14,060	8,503	2,839	2,001	1,480	624	235
1994.....	15,201	9,201	3,076	2,184	1,645	739	300
1995.....	15,960	9,735	3,305	2,185	1,748	792	292
1996.....	16,063	9,842	3,205	2,204	1,868	696	324
1997.....	16,016	9,973	3,094	2,123	1,890	759	287
1998.....	16,524	10,302	3,234	2,214	2,010	772	313
1999.....	17,122	10,646	3,310	2,234	2,180	780	330
2000.....	17,167	10,628	3,359	2,245	2,326	716	343
2001.....	18,114	11,448	3,461	2,398	2,410	799	376
2002.....	17,696	11,085	3,514	2,189	2,252	733	399
2003.....	19,099	11,989	3,771	2,401	2,565	871	377
2004.....	17,960	11,232	3,791	2,356	2,486	805	369
2005.....	19,952	12,742	4,026	2,639	2,979	811	461

FFRDC = federal funded research and development center

NOTES: Article counts based on whole counts and an expanding journal set. Articles classified by year they entered database rather than year of publication. Coauthored articles include all articles for which there are authors from more than one company. Detail does not sum to total because an article can have coauthors from multiple sectors.

SOURCES: Thomson Scientific, Science Citation Index and Social Sciences Citation Index, <http://www.scientific.thomson.com/products/categories/citation/>; iplQ, Inc.; and National Science Foundation, Division of Science Resources Statistics, special tabulations.

USPTO patent applications for selected regions/countries/economies: 1985–95

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
All regions/countries/economies	117,006	122,433	127,917	139,825	152,750	164,558	164,306	173,075	174,743	189,857	212,377
United States	63,874	65,487	68,315	75,192	82,370	90,643	87,955	92,425	99,955	107,233	123,958
EU	24,348	25,995	26,316	27,099	28,081	28,584	27,444	28,839	26,517	28,885	30,947
Austria	498	557	504	485	511	560	516	566	526	599	619
Belgium	450	523	518	545	572	592	614	692	685	862	1,001
Bulgaria	40	41	32	42	30	31	11	7	3	4	6
Czech Republic	68	63	50	72	71	39	32	41	27	28	36
Denmark	282	302	316	337	284	370	358	378	376	445	618
Finland	399	350	430	417	513	595	592	576	568	707	745
France	3,605	3,884	3,837	4,301	4,268	4,771	4,723	4,828	4,320	4,528	5,001
Germany	10,532	10,725	10,830	11,018	11,437	11,292	10,874	11,652	10,500	11,324	11,853
Greece	15	21	21	29	33	27	20	28	19	27	29
Hungary	208	209	174	172	174	138	103	76	69	76	70
Ireland	75	83	91	103	99	130	116	103	104	149	131
Italy	1,628	1,799	1,822	1,943	1,964	2,093	2,123	2,288	1,906	1,998	2,128
Luxembourg	29	40	31	39	35	32	36	39	35	39	20
Netherlands	1,221	1,269	1,334	1,512	1,570	1,588	1,397	1,547	1,472	1,455	1,570
Poland	13	19	23	26	24	13	21	16	27	20	19
Portugal	9	13	15	7	9	6	3	11	9	14	10
Romania	4	2	3		2	1	1	2	5	4	7
Slovenia	NA	NA	NA	NA	NA	NA	NA	8	19	11	13
Spain	207	225	228	231	302	289	258	313	269	315	357
Sweden	1,239	1,229	1,155	1,028	1,114	1,057	1,086	1,072	1,157	1,405	1,500
United Kingdom	3,825	4,641	4,898	4,788	5,066	4,959	4,557	4,587	4,414	4,856	5,202
All others	1	0	4	4	3	1	3	9	7	19	12
Asia	22,475	24,274	26,169	30,194	34,245	37,246	40,838	43,251	39,813	44,273	47,355
China	80	178	165	208	220	197	258	279	290	319	307
India	25	36	26	41	50	58	51	64	54	70	91
Japan	21,431	22,895	24,516	28,357	31,791	34,113	36,846	38,633	34,816	37,768	39,872
Malaysia	8	4	6	6	14	11	22	16	20	37	30
Philippines	15	10	11	14	13	9	10	10	9	7	12
Singapore	19	17	17	17	37	36	63	89	104	134	144
South Korea	129	162	235	295	607	775	1,321	1,471	1,624	2,354	2,820
Taiwan	760	959	1,182	1,246	1,507	2,035	2,252	2,667	2,874	3,560	4,054
Thailand	5	7	8	4	3	8	4	11	15	19	21
All others	3	6	3	6	3	4	11	11	7	5	4
All others	6,309	6,677	7,117	7,340	8,054	8,085	8,069	8,560	8,458	9,466	10,117
Argentina	39	56	42	32	32	56	59	59	56	75	65
Australia	739	809	842	750	800	811	783	863	781	921	1,007
Brazil	78	68	62	71	111	88	124	112	105	156	115
Canada	2,270	2,438	2,791	3,046	3,425	3,511	3,641	3,761	3,910	4,255	4,745
Chile	7	16	2	4	11	13	12	12	11	11	10
Iceland	1	5	6	2	3	3	10	16	3	6	6

USPTO patent applications for selected regions/countries/economies: 1985–95

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Israel	377	427	503	490	624	608	633	780	803	1,040	1,072
Mexico	81	69	70	74	77	76	106	105	82	105	99
New Zealand	121	135	132	110	121	105	91	107	85	130	137
Norway.....	160	177	185	159	141	164	169	212	190	203	243
Russian Federation.....	NA	NA	NA	NA	NA	NA	NA	183	153	206	221
South Africa.....	227	204	239	192	215	185	186	207	246	238	187
Switzerland	1,894	1,929	1,857	1,993	2,019	1,931	1,902	1,922	1,759	1,852	1,917
Turkey	11	4	5	7	3	6	3	2	3	5	6
All others.....	304	340	381	410	472	528	350	219	271	263	287

NA = not available

EU = European Union; USPTO = U.S. Patent and Trademark Office

NOTES: Patent applications assigned to region/country/economy based on residence of first-named inventor. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong. Countries having <0.01% world share of U.S. patent applications in 2005 grouped in All others.

SOURCES: USPTO, Number of Utility Patent Applications Filed in the United States by Country of Origin, Calendar Years 1965 to Present (1), http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm (September 2006); and National Science Foundation, Division of Science Resources Statistics, special tabulations.

Science and Engineering Indicators 2008

USPTO patent applications for selected regions/countries/economies: 1996–2005

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All regions/countries/economies	195,187	215,257	243,062	270,187	295,926	326,508	334,445	342,441	356,943	390,733
United States	106,892	120,445	135,483	149,825	164,795	177,511	184,245	188,941	189,536	207,867
EU	29,424	31,768	36,161	42,723	45,503	50,224	50,377	47,479	49,905	51,420
Austria	543	552	710	823	881	961	1,115	933	1,022	1,044
Belgium	930	894	1,059	1,204	1,245	1,286	1,293	1,395	1,309	1,460
Bulgaria	5	4	3	11	18	13	8	10	105	58
Czech Republic	30	40	53	46	52	77	58	61	69	81
Denmark	496	634	748	863	859	1,113	1,065	1,002	923	997
Finland	836	891	970	1,376	1,530	1,840	1,811	1,935	2,096	2,032
France	4,486	4,759	5,249	6,216	6,623	6,852	6,825	6,603	6,813	6,972
Germany	11,550	12,333	13,885	16,978	17,715	19,900	20,418	18,890	19,824	20,664
Greece	23	30	45	50	44	49	58	50	62	68
Hungary	59	40	73	120	107	103	128	118	144	131
Ireland	114	138	228	252	362	366	440	368	403	516
Italy	2,062	2,119	2,313	2,577	2,704	2,967	2,980	3,011	2,997	2,993
Luxembourg	31	32	36	59	57	61	69	60	72	51
Netherlands	1,559	1,726	1,816	2,058	2,289	2,712	2,602	2,257	3,052	3,188
Poland	22	19	19	31	33	39	46	59	101	102
Portugal	16	12	17	28	17	28	27	20	30	33
Romania	5	12	11	8	12	14	8	11	16	18
Slovenia	19	24	29	21	27	20	36	38	50	43
Spain	359	370	409	464	549	601	564	606	696	701
Sweden	1,481	1,980	2,359	2,570	2,825	2,827	2,410	2,314	2,270	2,243
United Kingdom	4,791	5,147	6,110	6,948	7,523	8,362	8,391	7,700	7,792	7,962
All others	7	12	19	20	31	33	25	38	59	63
Asia	49,249	52,953	59,184	63,805	69,891	81,966	82,747	88,592	98,660	111,620
China	364	324	455	660	942	1,252	1,569	1,763	2,470	2,943
India	115	137	180	271	438	643	919	1,164	1,303	1,463
Japan	39,510	41,767	45,260	47,821	52,891	61,238	58,739	60,350	64,812	71,994
Malaysia	30	61	41	76	104	116	142	237	326	323
Philippines	9	15	13	20	32	51	58	42	82	65
Singapore	176	213	336	460	632	786	807	771	879	919
South Korea	4,248	4,920	5,452	5,033	5,705	6,719	7,937	10,411	13,646	17,217
Taiwan	4,766	5,492	7,412	9,411	9,046	11,086	12,488	13,786	15,057	16,617
Thailand	20	21	26	41	92	70	61	60	69	68
All others	11	3	9	12	9	5	27	8	16	11
All others	9,622	10,091	12,234	13,834	15,737	16,807	17,076	17,429	18,842	19,826
Argentina	78	77	119	96	137	137	95	125	103	94
Australia	1,057	1,006	1,420	1,462	1,800	1,995	2,160	2,310	3,000	2,919
Brazil	145	134	165	186	220	219	243	259	287	295
Canada	4,443	4,694	5,689	6,149	6,809	7,221	7,375	7,750	8,202	8,638
Chile	23	17	17	16	24	23	38	33	51	55
Iceland	13	8	25	31	30	51	41	56	51	53

USPTO patent applications for selected regions/countries/economies: 1996–2005

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Israel	1,042	1,198	1,442	2,009	2,509	2,710	2,645	2,539	2,693	3,157
Mexico	97	110	141	147	190	196	157	185	179	180
New Zealand	174	174	187	240	279	318	375	387	346	352
Norway.....	227	303	337	415	447	475	531	449	525	541
Russian Federation.....	254	249	273	388	382	433	377	341	334	366
South Africa.....	189	174	211	179	209	231	241	224	246	197
Switzerland	1,609	1,637	1,875	2,144	2,233	2,337	2,338	2,275	2,316	2,447
Turkey	7	10	16	29	28	28	36	28	48	46
All others.....	264	300	317	343	440	433	424	468	461	486

EU = European Union; USPTO = U.S. Patent and Trademark Office

NOTES: Patent applications assigned to region/country/economy based on residence of first-named inventor. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong. Countries having <0.01% world share of U.S. patent applications in 2005 grouped in All others.

SOURCES: USPTO, Number of Utility Patent Applications Filed in the United States by Country of Origin, Calendar Years 1965 to Present (1), http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm (September 2006); and National Science Foundation, Division of Science Resources Statistics, special tabulations.

Science and Engineering Indicators 2008

Share of USPTO and EPO patent applications for selected regions/countries/economies: 1996–2005

(Percent distribution)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
USPTO patent applications										
All regions/countries/economies	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
United States.....	54.76	55.95	55.74	55.45	55.69	54.37	55.09	55.17	53.10	53.20
EU.....	15.07	14.76	14.88	15.81	15.38	15.38	15.06	13.86	13.98	13.16
Austria	0.28	0.26	0.29	0.30	0.30	0.29	0.33	0.27	0.29	0.27
Belgium	0.48	0.42	0.44	0.45	0.42	0.39	0.39	0.41	0.37	0.37
Bulgaria	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.01
Czech Republic	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Denmark.....	0.25	0.29	0.31	0.32	0.29	0.34	0.32	0.29	0.26	0.26
Finland.....	0.43	0.41	0.40	0.51	0.52	0.56	0.54	0.57	0.59	0.52
France.....	2.30	2.21	2.16	2.30	2.24	2.10	2.04	1.93	1.91	1.78
Germany.....	5.92	5.73	5.71	6.28	5.99	6.09	6.11	5.52	5.55	5.29
Greece.....	0.01	0.01	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.02
Hungary.....	0.03	0.02	0.03	0.04	0.04	0.03	0.04	0.03	0.04	0.03
Ireland.....	0.06	0.06	0.09	0.09	0.12	0.11	0.13	0.11	0.11	0.13
Italy.....	1.06	0.98	0.95	0.95	0.91	0.91	0.89	0.88	0.84	0.77
Luxembourg.....	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01
Netherlands.....	0.80	0.80	0.75	0.76	0.77	0.83	0.78	0.66	0.86	0.82
Poland.....	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.03
Portugal.....	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Romania.....	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slovenia.....	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Spain.....	0.18	0.17	0.17	0.17	0.19	0.18	0.17	0.18	0.19	0.18
Sweden.....	0.76	0.92	0.97	0.95	0.95	0.87	0.72	0.68	0.64	0.57
United Kingdom.....	2.45	2.39	2.51	2.57	2.54	2.56	2.51	2.25	2.18	2.04
All others.....	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02
Asia.....	25.23	24.60	24.35	23.62	23.62	25.10	24.74	25.87	27.64	28.57
China.....	0.19	0.15	0.19	0.24	0.32	0.38	0.47	0.51	0.69	0.75
India.....	0.06	0.06	0.07	0.10	0.15	0.20	0.27	0.34	0.37	0.37
Japan.....	20.24	19.40	18.62	17.70	17.87	18.76	17.56	17.62	18.16	18.43
Malaysia.....	0.02	0.03	0.02	0.03	0.04	0.04	0.04	0.07	0.09	0.08
Philippines.....	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.02	0.02
Singapore.....	0.09	0.10	0.14	0.17	0.21	0.24	0.24	0.23	0.25	0.24
South Korea.....	2.18	2.29	2.24	1.86	1.93	2.06	2.37	3.04	3.82	4.41
Taiwan.....	2.44	2.55	3.05	3.48	3.06	3.40	3.73	4.03	4.22	4.25
Thailand.....	0.01	0.01	0.01	0.02	0.03	0.02	0.02	0.02	0.02	0.02
All others.....	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
All others.....	4.93	4.69	5.03	5.12	5.32	5.15	5.11	5.09	5.28	5.07
EPO patent applications										
All regions/countries/economies	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	NA
United States.....	30.55	28.76	28.50	28.50	27.78	26.52	26.49	27.28	26.45	NA
EU.....	44.42	45.89	46.50	46.44	46.09	45.53	46.23	44.75	44.09	NA

Appendix table 6-33

(Page 2 of 2)

Share of USPTO and EPO patent applications for selected regions/countries/economies: 1996–2005

(Percent distribution)

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Austria	0.96	0.96	1.11	1.01	1.00	1.05	1.10	1.11	1.15	NA
Belgium	1.12	1.22	1.34	1.24	1.22	1.11	1.10	1.11	1.13	NA
Bulgaria	0.01	0.01	0.01	0.01	0.01	0.00	0.02	0.02	0.01	NA
Czech Republic	0.03	0.04	0.06	0.06	0.06	0.06	0.06	0.08	0.10	NA
Denmark	0.71	0.78	0.73	0.83	0.79	0.80	0.82	0.83	0.81	NA
Finland	1.02	1.07	1.16	1.22	1.29	1.29	1.24	1.06	1.03	NA
France.....	7.28	7.16	7.12	6.95	6.72	6.44	6.63	6.64	6.72	NA
Germany	18.52	19.63	19.95	20.22	19.95	19.60	19.73	19.07	18.82	NA
Greece	0.04	0.05	0.06	0.06	0.04	0.05	0.07	0.07	0.06	NA
Hungary	0.08	0.07	0.08	0.07	0.11	0.10	0.11	0.09	0.11	NA
Ireland.....	0.14	0.15	0.15	0.19	0.23	0.18	0.21	0.18	0.18	NA
Italy.....	3.69	3.67	3.64	3.50	3.52	3.53	3.70	3.81	3.60	NA
Luxembourg.....	0.05	0.06	0.06	0.07	0.06	0.07	0.07	0.07	0.09	NA
Netherlands.....	2.54	2.73	2.72	2.71	2.84	3.02	3.52	3.07	2.95	NA
Poland.....	0.02	0.03	0.04	0.03	0.03	0.04	0.05	0.07	0.11	NA
Portugal	0.02	0.03	0.02	0.04	0.03	0.04	0.03	0.04	0.05	NA
Romania.....	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA
Slovenia	0.03	0.03	0.02	0.04	0.03	0.05	0.05	0.08	0.07	NA
Spain	0.53	0.60	0.68	0.70	0.69	0.74	0.83	0.80	0.77	NA
Sweden.....	2.17	2.29	2.27	2.14	2.10	2.03	1.93	1.83	1.70	NA
United Kingdom.....	5.44	5.30	5.22	5.31	5.32	5.28	4.91	4.68	4.56	NA
All others.....	0.03	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.06	NA
Asia.....	18.90	19.01	18.16	18.23	19.02	20.80	20.18	20.90	22.16	NA
China	0.14	0.13	0.15	0.17	0.25	0.33	0.39	0.60	0.68	NA
India.....	0.06	0.08	0.10	0.12	0.14	0.18	0.35	0.37	0.30	NA
Japan.....	17.80	17.88	16.87	16.55	17.22	18.64	17.34	17.28	17.85	NA
Malaysia	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.04	0.04	NA
Philippines	0.00	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.01	NA
Singapore.....	0.07	0.10	0.11	0.13	0.13	0.13	0.17	0.16	0.17	NA
South Korea	0.62	0.62	0.73	0.99	1.01	1.18	1.48	1.98	2.63	NA
Taiwan	0.18	0.18	0.18	0.23	0.22	0.28	0.40	0.45	0.46	NA
Thailand	0.01	0.00	0.01	0.01	0.02	0.02	0.01	0.01	0.01	NA
All others.....	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	NA
All others.....	6.13	6.34	6.83	6.84	7.12	7.15	7.09	7.07	7.31	NA

NA = not available

EPO = European Patent Office; EU = European Union; USPTO = U.S. Patent and Trademark Office

NOTES: USPTO patent applications assigned to region/country/economy based on residence of first-named inventor. EPO patent applications on fractional-count basis. For patent applications with multiple inventors from different countries, each country receives fractional credit based on proportion of its participating inventors. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong. Countries having <0.01% world share of U.S. patent applications in 2005 grouped in All others.

SOURCES: USPTO, Number of Utility Patent Applications Filed in the United States by Country of Origin, Calendar Years 1965 to Present (1), http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm (September 2006); National Science Foundation, Division of Science Resources Statistics, special tabulations; and Organisation for Economic Co-operation and Development, Patent database, http://stats.oecd.org/wbos/default.aspx?DatasetCode=PATS_IPC.

Appendix table 6-34

Share of USPTO patents granted to U.S. states: Selected years, 1980–97

(Percent distribution)

Rank/state	1980	1985	1987	1989	1991	1993	1995	1997
All states (number).....	37,353	39,556	43,520	50,185	51,177	53,231	55,739	61,708
All states	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1 California	13.53	13.43	14.59	15.07	15.08	15.34	16.62	18.29
2 Texas	4.85	5.97	6.25	6.41	6.21	6.37	6.97	6.71
3 New York	8.98	8.41	8.13	8.18	8.73	8.81	8.40	7.80
4 Michigan	5.68	5.22	5.08	5.22	5.48	5.40	4.99	4.60
5 Massachusetts	4.11	4.03	4.12	3.95	3.98	4.15	3.88	4.17
6 New Jersey	7.93	7.55	6.51	6.13	5.92	5.47	4.94	5.16
7 Illinois	7.29	6.48	5.98	5.67	5.44	5.35	5.16	4.87
8 Pennsylvania	6.73	5.92	6.63	5.59	5.29	5.03	4.74	4.37
9 Ohio	5.77	5.84	5.47	5.17	4.99	4.75	4.34	4.40
10 Minnesota	2.14	2.62	2.63	2.67	2.63	2.91	2.97	2.97
11 Florida	2.81	2.85	3.14	3.39	3.30	3.34	3.59	3.50
12 Washington	1.35	1.49	1.60	1.84	1.86	1.68	1.85	2.19
13 Colorado	1.27	1.35	1.47	1.57	1.49	1.71	1.97	1.98
14 North Carolina	1.27	1.35	1.51	1.58	1.72	1.71	1.86	2.05
15 Wisconsin	1.99	2.06	2.15	2.32	2.13	2.14	2.17	2.11
16 Connecticut	2.88	3.32	3.21	3.12	2.74	2.90	2.77	2.27
17 Idaho	0.21	0.16	0.20	0.32	0.40	0.63	0.55	0.92
18 Arizona	1.17	1.38	1.54	1.48	1.62	1.59	1.79	1.70
19 Oregon	0.80	0.93	1.13	1.22	1.08	1.11	1.26	1.29
20 Maryland	1.93	1.73	1.62	1.61	1.66	1.87	1.77	1.90
21 Indiana	2.29	2.28	2.21	1.95	2.00	1.82	1.99	1.97
22 Georgia	0.88	1.00	1.13	1.29	1.25	1.32	1.52	1.57
23 Virginia	1.37	1.52	1.31	1.44	1.62	1.64	1.47	1.33
24 Missouri	1.61	1.21	1.25	1.28	1.41	1.19	1.20	1.18
25 Tennessee	0.99	0.90	0.80	1.03	1.01	1.04	1.06	1.04
26 Utah	0.54	0.61	0.63	0.66	0.72	0.79	0.91	0.99
27 Iowa	0.83	0.85	0.82	0.79	0.73	0.69	0.76	0.64
28 New Hampshire	0.43	0.51	0.53	0.57	0.62	0.68	0.73	0.74
29 South Carolina	0.59	0.78	0.66	0.82	0.80	0.79	0.79	0.70
30 Oklahoma	1.62	1.81	1.42	1.19	1.11	1.12	0.85	0.67
31 Kentucky	0.71	0.81	0.59	0.49	0.63	0.52	0.49	0.47
32 Vermont	0.14	0.21	0.20	0.24	0.20	0.24	0.27	0.45
33 Louisiana	0.76	1.00	0.94	0.89	0.92	0.81	0.66	0.61
34 Kansas	0.66	0.52	0.47	0.52	0.48	0.45	0.44	0.42
35 Alabama	0.50	0.65	0.61	0.59	0.62	0.51	0.51	0.49
36 Delaware	0.75	0.71	0.79	0.88	1.01	0.95	0.77	0.58
37 Nevada	0.24	0.15	0.19	0.24	0.32	0.26	0.30	0.29
38 New Mexico	0.29	0.40	0.40	0.35	0.45	0.44	0.46	0.42
39 Rhode Island	0.32	0.30	0.24	0.31	0.38	0.41	0.37	0.40
40 Nebraska	0.24	0.27	0.28	0.25	0.28	0.32	0.24	0.27
41 Arkansas	0.19	0.16	0.17	0.21	0.23	0.22	0.19	0.20
42 Mississippi	0.16	0.16	0.18	0.20	0.19	0.19	0.19	0.25
43 Maine	0.16	0.19	0.19	0.22	0.18	0.22	0.20	0.15
44 West Virginia	0.36	0.28	0.30	0.31	0.32	0.32	0.24	0.24
45 Montana	0.14	0.18	0.19	0.17	0.16	0.17	0.22	0.14
46 South Dakota	0.06	0.09	0.09	0.07	0.05	0.06	0.06	0.07
47 Hawaii	0.09	0.09	0.09	0.13	0.12	0.15	0.12	0.12
48 North Dakota	0.07	0.08	0.10	0.11	0.12	0.11	0.10	0.07
49 District of Columbia	0.13	0.11	0.10	0.10	0.12	0.10	0.10	0.08
50 Wyoming	0.09	0.06	0.10	0.06	0.08	0.07	0.09	0.08
51 Alaska	0.06	0.06	0.04	0.07	0.08	0.09	0.07	0.07
52 Puerto Rico	0.03	0.03	0.03	0.05	0.03	0.03	0.04	0.02
53 Other	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.01

USPTO = U.S. Patent and Trademark Office

NOTES: Patents assigned to state based on residence of first-named inventor. States ranked by 2005 share of U.S. patents issued to United States. Other includes U.S. territories.

SOURCES: USPTO, Historic Patents by Country, State, and Year 1963–2005; and Historic Patents by Country, State, and Year, Utility Patents, http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_uth.htm, accessed 15 December 2006.

Appendix table 6-35

Share of USPTO patents granted to U.S. states: 1999–2005

(Percent distribution)

Rank/state	1999	2000	2001	2002	2003	2004	2005
All states (number).....	83,905	85,068	87,600	86,971	87,893	84,271	74,637
All states	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1 California	19.99	20.56	21.23	21.65	22.40	23.13	24.10
2 Texas	7.21	7.43	7.27	6.93	6.86	7.04	7.05
3 New York	7.28	7.15	7.24	7.31	7.09	6.94	6.30
4 Michigan	4.39	4.38	4.39	4.44	4.39	4.46	4.51
5 Massachusetts	4.20	4.06	4.19	4.15	4.45	4.36	4.17
6 New Jersey	4.75	4.57	4.42	4.32	4.01	3.51	3.43
7 Illinois	4.45	4.50	4.15	3.99	3.75	3.75	3.69
8 Pennsylvania	4.47	4.28	4.03	3.84	3.62	3.42	3.08
9 Ohio	4.00	3.76	3.74	3.83	3.62	3.43	3.11
10 Minnesota	3.16	3.19	3.01	3.16	3.36	3.27	3.26
11 Florida	3.10	3.06	3.02	2.76	2.92	2.91	3.07
12 Washington	2.18	2.14	2.25	2.41	2.60	2.64	3.07
13 Colorado	2.16	2.17	2.20	2.23	2.35	2.49	2.48
14 North Carolina	2.07	2.17	2.22	2.09	2.13	2.13	2.16
15 Wisconsin	1.99	1.98	2.10	2.14	2.03	1.97	1.99
16 Connecticut	2.14	2.15	2.11	2.08	1.90	1.87	2.04
17 Idaho	1.46	1.85	1.94	2.10	2.05	2.12	2.05
18 Arizona	1.79	1.87	1.76	1.83	1.80	1.92	1.95
19 Oregon	1.31	1.40	1.44	1.67	1.89	2.05	2.17
20 Maryland	1.80	1.60	1.69	1.68	1.65	1.56	1.60
21 Indiana	1.72	1.68	1.55	1.61	1.58	1.52	1.48
22 Georgia	1.57	1.54	1.56	1.49	1.52	1.57	1.63
23 Virginia	1.24	1.34	1.27	1.33	1.26	1.28	1.27
24 Missouri	1.11	0.97	0.96	0.96	0.94	0.91	0.84
25 Tennessee	1.02	0.92	0.93	0.96	0.91	0.81	0.78
26 Utah	0.81	0.83	0.82	0.78	0.73	0.81	0.74
27 Iowa	0.89	0.69	0.86	0.72	0.76	0.78	0.75
28 New Hampshire	0.78	0.74	0.68	0.70	0.77	0.74	0.67
29 South Carolina	0.67	0.62	0.64	0.69	0.65	0.62	0.62
30 Oklahoma	0.59	0.64	0.66	0.54	0.59	0.53	0.54
31 Kentucky	0.54	0.54	0.55	0.52	0.50	0.48	0.46
32 Vermont	0.41	0.44	0.52	0.56	0.49	0.47	0.49
33 Louisiana	0.58	0.61	0.59	0.51	0.44	0.41	0.36
34 Kansas	0.52	0.46	0.36	0.48	0.49	0.53	0.51
35 Alabama	0.48	0.40	0.43	0.46	0.45	0.44	0.43
36 Delaware	0.50	0.46	0.43	0.41	0.39	0.41	0.43
37 Nevada	0.35	0.37	0.36	0.35	0.44	0.49	0.51
38 New Mexico	0.40	0.38	0.43	0.43	0.44	0.44	0.36
39 Rhode Island	0.31	0.38	0.33	0.30	0.30	0.37	0.35
40 Nebraska	0.23	0.27	0.25	0.24	0.21	0.23	0.24
41 Arkansas	0.22	0.25	0.21	0.21	0.17	0.16	0.17
42 Mississippi	0.22	0.22	0.19	0.18	0.18	0.16	0.15
43 Maine	0.14	0.15	0.17	0.18	0.17	0.16	0.20
44 West Virginia	0.18	0.17	0.17	0.17	0.16	0.12	0.12
45 Montana	0.15	0.13	0.17	0.16	0.14	0.14	0.14
46 South Dakota	0.08	0.10	0.09	0.09	0.09	0.10	0.09
47 Hawaii	0.10	0.09	0.11	0.08	0.09	0.09	0.07
48 North Dakota	0.08	0.10	0.11	0.08	0.06	0.06	0.10
49 District of Columbia	0.07	0.07	0.08	0.07	0.06	0.09	0.07
50 Wyoming	0.06	0.06	0.06	0.06	0.08	0.06	0.07
51 Alaska	0.06	0.05	0.06	0.05	0.04	0.05	0.05
52 Puerto Rico	0.03	0.03	0.01	0.02	0.03	0.02	0.03
53 Other	0.01	0.00	0.01	0.00	0.00	0.00	0.01

USPTO = U.S. Patent and Trademark Office

NOTES: Patents assigned to state based on residence of first-named inventor. States ranked by 2005 share of U.S. patents issued to United States. Other includes U.S. territories.

SOURCES: USPTO, Historic Patents by Country, State, and Year 1963–2005; and Historic Patents by Country, State, and Year, Utility Patents, http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_uth.htm, accessed 15 December 2006.

Appendix table 6-36

USPTO patents per capita of U.S. states: 2005

Rank/state	Number	Rank/state	Number
1 Idaho	1,069.7	27 Nevada	158.8
2 Vermont.....	589.7	28 Kansas	138.3
3 California.....	497.6	29 New Mexico.....	137.6
4 Massachusetts	484.0	30 Georgia.....	132.9
5 Minnesota.....	474.2	31 Florida.....	128.9
6 Oregon	444.6	32 Virginia	125.1
7 Connecticut	434.2	33 North Dakota	116.6
8 Colorado.....	397.6	34 Maine	114.5
9 New Hampshire	381.1	35 Oklahoma.....	113.7
10 Delaware.....	377.8	36 Missouri.....	108.3
11 Washington.....	364.1	37 South Carolina	108.3
12 Michigan.....	333.3	38 Montana	108.1
13 New Jersey.....	293.8	39 Wyoming	104.2
14 Wisconsin.....	269.4	40 Nebraska.....	103.5
15 Rhode Island.....	245.0	41 Tennessee	98.1
16 Arizona	244.8	42 District of Columbia	94.5
17 New York	243.5	43 South Dakota.....	85.2
18 Texas.....	229.4	44 Kentucky	82.9
19 Utah.....	222.5	45 Alabama	69.9
20 Illinois.....	215.6	46 Louisiana	60.1
21 Maryland	213.1	47 Alaska	52.8
22 Ohio.....	202.2	48 West Virginia.....	50.2
23 Iowa	188.8	49 Arkansas	45.4
24 North Carolina.....	185.6	50 Hawaii	39.3
25 Pennsylvania.....	185.2	51 Mississippi.....	39.2
26 Indiana	176.8	52 Puerto Rico.....	6.6

USPTO = U.S. Patent and Trademark Office

NOTES: Patents assigned to state based on residence of first-named inventor. States ranked by number of 2005 patents per million inhabitants in 2005.

SOURCES: USPTO, Historic Patents By Country, State, and Year 1963–2005, http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm, accessed December 2005; and Census Bureau, Annual Estimates of the Population for the United States, Regions, and States and for Puerto Rico: April 1, 2000 to July 1, 2006 (NST-EST2006-01), <http://www.census.gov/popest/states/NST-ann-est.html>, accessed 15 December 2006.

Appendix table 6-37

Share of USPTO patent applications for selected countries/economies: 1995, 2000, and 2005

(Percent)

Rank	1995		2000		2005	
	Country/economy	Share	Country/economy	Share	Country/economy	Share
1	U.S.	58.37	U.S.	55.69	U.S.	53.20
2	Japan	18.77	Japan	17.87	Japan	18.43
3	Germany	5.58	Germany	5.99	Germany	5.29
4	UK	2.45	Taiwan	3.06	South Korea	4.41
5	France	2.35	UK	2.54	Taiwan	4.25
6	Canada	2.23	Canada	2.30	Canada	2.21
7	Taiwan	1.91	France	2.24	UK	2.04
8	South Korea	1.33	South Korea	1.93	France	1.78
9	Italy	1.00	Sweden	0.95	Netherlands	0.82
10	Switzerland	0.90	Italy	0.91	Israel	0.81
11	Netherlands	0.74	Israel	0.85	Italy	0.77
12	Sweden	0.71	Netherlands	0.77	China	0.75
13	Israel	0.50	Switzerland	0.75	Australia	0.75
14	Australia	0.47	Australia	0.61	Switzerland	0.63
15	Belgium	0.47	Finland	0.52	Sweden	0.57
16	Finland	0.35	Belgium	0.42	Finland	0.52
17	Austria	0.29	China	0.32	India	0.37
18	Denmark	0.29	Austria	0.30	Belgium	0.37
19	Spain	0.17	Denmark	0.29	Austria	0.27
20	China	0.14	Singapore	0.21	Denmark	0.26
21	Norway	0.11	Spain	0.19	Singapore	0.24
22	Russian Federation	0.10	Norway	0.15	Spain	0.18
23	South Africa	0.09	India	0.15	Norway	0.14
24	Singapore	0.07	Russian Federation	0.13	Ireland	0.13
25	New Zealand	0.06	Ireland	0.12	Russian Federation	0.09
26	Ireland	0.06	New Zealand	0.09	New Zealand	0.09
27	Brazil	0.05	Brazil	0.07	Malaysia	0.08
28	Mexico	0.05	South Africa	0.07	Brazil	0.08
29	India	0.04	Mexico	0.06	South Africa	0.05
30	Hungary	0.03	Argentina	0.05	Mexico	0.05

UK = United Kingdom; USPTO = U.S. Patent and Trademark Office

NOTES: Patent applications and grants assigned to country/economy based on residence of first-named inventor. China includes Hong Kong.

SOURCES: USPTO, Number of Utility Patent Applications Filed in the United States by Country of Origin, Calendar Years 1965 to Present (1), http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm, accessed December 2006; Historic Patents by Country, State, and Year, Utility Patents, http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm, accessed 15 December 2006; and National Science Foundation, Division of Science Resources Statistics, special tabulations.

Appendix table 6-38

Share of USPTO patent grants for selected countries/economies: 1995, 2000, and 2005

(Percent)

Rank	1995		2000		2005	
	Country/economy	Share	Country/economy	Share	Country/economy	Share
1	U.S.	54.96	U.S.	54.01	U.S.	51.90
2	Japan	21.46	Japan	19.87	Japan	21.10
3	Germany	6.51	Germany	6.50	Germany	6.27
4	France	2.78	Taiwan	2.96	Taiwan	3.56
5	UK	2.45	France	2.42	South Korea	3.03
6	Canada	2.07	UK	2.33	UK	2.19
7	Taiwan	1.60	Canada	2.17	Canada	2.01
8	South Korea	1.14	South Korea	2.10	France	1.99
9	Italy	1.06	Italy	1.09	Italy	0.90
10	Switzerland	1.04	Sweden	1.00	Sweden	0.78
11	Sweden	0.79	Switzerland	0.84	Switzerland	0.69
12	Netherlands	0.79	Netherlands	0.79	Netherlands	0.69
13	Australia	0.45	Israel	0.50	Israel	0.64
14	Belgium	0.39	Australia	0.45	Australia	0.63
15	Israel	0.38	Belgium	0.44	Finland	0.50
16	Finland	0.35	Finland	0.39	China	0.48
17	Austria	0.33	Austria	0.32	Belgium	0.36
18	Denmark	0.20	Denmark	0.28	Austria	0.32
19	China	0.15	China	0.19	India	0.27
20	Spain	0.15	Spain	0.17	Denmark	0.25
21	Norway	0.13	Norway	0.16	Singapore	0.24
22	South Africa	0.12	Singapore	0.14	Spain	0.19
23	Russia	0.10	Russia	0.12	Norway	0.15
24	Brazil	0.06	India	0.08	Ireland	0.11
25	Singapore	0.05	Ireland	0.08	Russia	0.10

UK = United Kingdom; USPTO = U.S. Patent and Trademark Office

NOTES: Patent applications and grants assigned to country/economy based on residence of first-named inventor. China includes Hong Kong.

SOURCES: USPTO, Number of Utility Patent Applications Filed in the United States by Country of Origin, Calendar Years 1965 to Present (1), http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm, accessed December 2006; Historic Patents by Country, State, and Year, Utility Patents, http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utilh.htm, accessed 15 December 2006; and National Science Foundation, Division of Science Resources Statistics, special tabulations.

USPTO patents granted for selected regions/countries/economies: 1985–95

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
	Number										
All regions/countries/economies	71,661	70,860	82,952	77,924	95,537	90,365	96,511	97,444	98,342	101,676	101,419
United States.....	39,556	38,126	43,520	40,497	50,185	47,391	51,177	52,253	53,231	56,066	55,739
EU	15,452	15,596	18,112	16,645	19,435	17,820	18,039	17,105	16,312	16,002	16,193
Austria	318	357	345	337	402	393	359	371	312	289	337
Belgium.....	240	243	295	302	359	313	324	325	350	352	397
Bulgaria.....	21	21	32	23	16	27	10	5	5	4	1
Czech Republic.....	54	35	46	33	34	39	27	17	13	20	16
Denmark.....	187	182	204	151	221	158	210	193	197	207	199
Finland.....	200	210	275	232	230	304	331	361	293	312	358
France.....	2,400	2,369	2,874	2,661	3,140	2,866	3,030	3,029	2,909	2,779	2,821
Germany.....	6,718	6,856	7,884	7,352	8,352	7,614	7,680	7,309	6,893	6,731	6,600
Greece.....	7	11	4	8	10	8	13	9	7	16	7
Hungary.....	108	131	127	94	129	93	85	88	61	46	50
Ireland.....	30	26	36	37	59	49	53	50	46	48	47
Italy.....	919	995	1,183	1,076	1,297	1,259	1,209	1,271	1,285	1,215	1,078
Luxembourg.....	37	31	22	29	29	17	27	26	28	22	24
Netherlands.....	766	722	922	806	1,061	960	992	855	800	852	799
Poland.....	11	14	13	8	14	17	8	5	8	8	8
Portugal.....	4	2	5	5	11	7	8	1	2	6	3
Romania.....	3	2	5	1	0	1	1	0	2	1	3
Slovenia.....	0	0	0	0	0	0	0	0	3	6	4
Spain.....	78	97	115	126	131	130	153	133	158	141	148
Sweden.....	857	883	948	777	837	768	716	626	636	706	806
United Kingdom.....	2,494	2,407	2,777	2,585	3,100	2,794	2,803	2,430	2,302	2,236	2,481
All others.....	0	2	0	2	3	3	0	1	2	5	6
Asia.....	13,016	13,535	17,072	16,830	21,067	20,628	22,494	23,642	24,468	24,978	24,806
China.....	26	40	57	88	100	99	100	101	113	105	148
India.....	10	18	12	14	14	23	22	24	30	27	37
Japan.....	12,746	13,209	16,557	16,158	20,168	19,525	21,025	21,925	22,293	22,384	21,764
Malaysia.....	3	4	2	2	2	3	12	5	13	10	7
Philippines.....	5	1	5	4	7	4	5	7	4	1	4
Singapore.....	9	3	11	6	18	12	15	32	38	51	53
South Korea.....	41	46	84	97	159	225	405	538	779	943	1,161
Taiwan.....	174	208	343	457	591	732	906	1,001	1,189	1,443	1,620
Thailand.....	1	3	1	2	4	2	2	1	5	5	8
All others.....	1	3	0	2	4	3	2	8	4	9	4
All others.....	3,637	3,603	4,248	3,952	4,850	4,526	4,801	4,444	4,331	4,630	4,681
Share of USPTO applications	Percent distribution										
All regions/countries/economies	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
United States.....	55.20	53.80	52.46	51.97	52.53	52.44	53.03	53.62	54.13	55.14	54.96
EU.....	21.56	22.01	21.83	21.36	20.34	19.72	18.69	17.55	16.59	15.74	15.97

USPTO patents granted for selected regions/countries/economies: 1985–95

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Austria	0.44	0.50	0.42	0.43	0.42	0.43	0.37	0.38	0.32	0.28	0.33
Belgium	0.33	0.34	0.36	0.39	0.38	0.35	0.34	0.33	0.36	0.35	0.39
Bulgaria	0.03	0.03	0.04	0.03	0.02	0.03	0.01	0.01	0.01	0.00	0.00
Czech Republic	0.08	0.05	0.06	0.04	0.04	0.04	0.03	0.02	0.01	0.02	0.02
Denmark	0.26	0.26	0.25	0.19	0.23	0.17	0.22	0.20	0.20	0.20	0.20
Finland	0.28	0.30	0.33	0.30	0.24	0.34	0.34	0.37	0.30	0.31	0.35
France	3.35	3.34	3.46	3.41	3.29	3.17	3.14	3.11	2.96	2.73	2.78
Germany	9.37	9.68	9.50	9.43	8.74	8.43	7.96	7.50	7.01	6.62	6.51
Greece	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01
Hungary	0.15	0.18	0.15	0.12	0.14	0.10	0.09	0.09	0.06	0.05	0.05
Ireland	0.04	0.04	0.04	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05
Italy	1.28	1.40	1.43	1.38	1.36	1.39	1.25	1.30	1.31	1.19	1.06
Luxembourg	0.05	0.04	0.03	0.04	0.03	0.02	0.03	0.03	0.03	0.02	0.02
Netherlands	1.07	1.02	1.11	1.03	1.11	1.06	1.03	0.88	0.81	0.84	0.79
Poland	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01
Portugal	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.00
Romania	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slovenia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Spain	0.11	0.14	0.14	0.16	0.14	0.14	0.16	0.14	0.16	0.14	0.15
Sweden	1.20	1.25	1.14	1.00	0.88	0.85	0.74	0.64	0.65	0.69	0.79
United Kingdom	3.48	3.40	3.35	3.32	3.24	3.09	2.90	2.49	2.34	2.20	2.45
All others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Asia	18.16	19.10	20.58	21.60	22.05	22.83	23.31	24.26	24.88	24.57	24.46
China	0.04	0.06	0.07	0.11	0.10	0.11	0.10	0.10	0.11	0.10	0.15
India	0.01	0.03	0.01	0.02	0.01	0.03	0.02	0.02	0.03	0.03	0.04
Japan	17.79	18.64	19.96	20.74	21.11	21.61	21.79	22.50	22.67	22.02	21.46
Malaysia	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Philippines	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.00
Singapore	0.01	0.00	0.01	0.01	0.02	0.01	0.02	0.03	0.04	0.05	0.05
South Korea	0.06	0.06	0.10	0.12	0.17	0.25	0.42	0.55	0.79	0.93	1.14
Taiwan	0.24	0.29	0.41	0.59	0.62	0.81	0.94	1.03	1.21	1.42	1.60
Thailand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
All others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00
All others	5.08	5.08	5.12	5.07	5.08	5.01	4.97	4.56	4.40	4.55	4.62

EU = European Union; USPTO = U.S. Patent and Trademark Office

NOTES: USPTO patents are utility patents, which are patents of inventions. Design, plant, and reissue patents not included. Patents granted assigned to region/country/economy based on residence of first-named inventor. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong. Countries that have <0.01% world share of U.S. patent applications in 2005 grouped in All others.

SOURCE: USPTO, Historic Patents by Country, State, and Year, Utility Patents, http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm, accessed 15 December 2006.

USPTO patents granted for selected regions/countries/economies: 1996–2005

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
	Number									
All regions/countries/economies	109,645	111,984	147,518	153,485	157,494	166,036	167,331	169,023	164,291	143,806
United States	61,104	61,708	80,289	83,905	85,068	87,600	86,971	87,893	84,271	74,637
EU	16,807	17,606	22,820	23,611	25,082	27,192	27,088	26,841	24,906	21,124
Austria	362	376	387	479	505	589	530	592	540	462
Belgium	488	515	693	648	694	718	722	622	612	519
Bulgaria	1	5	1	2	1	3	3	9	3	3
Czech Republic	13	23	22	29	32	23	31	41	31	25
Denmark	241	333	392	487	436	479	426	529	414	358
Finland	444	452	595	649	618	732	809	865	918	720
France	2,788	2,958	3,674	3,820	3,819	4,041	4,035	3,868	3,380	2,866
Germany	6,818	7,008	9,095	9,337	10,235	11,260	11,280	11,444	10,779	9,011
Greece	18	12	16	23	18	26	20	22	15	15
Hungary	43	25	50	39	36	60	48	72	48	46
Ireland	77	71	71	90	121	141	127	163	186	156
Italy	1,200	1,239	1,584	1,492	1,714	1,709	1,751	1,722	1,584	1,296
Luxembourg	18	22	20	22	40	33	37	35	44	41
Netherlands	797	808	1,226	1,247	1,241	1,332	1,391	1,325	1,273	993
Poland	15	11	15	19	13	16	11	17	16	23
Portugal	3	8	11	5	11	12	11	12	17	10
Romania	4	1	3	4	4	10	3	7	9	7
Slovenia	10	7	18	10	16	21	16	18	21	12
Spain	157	177	248	222	270	269	303	309	264	273
Sweden	854	867	1,225	1,401	1,577	1,741	1,675	1,521	1,290	1,123
United Kingdom	2,454	2,680	3,467	3,576	3,669	3,967	3,843	3,631	3,450	3,148
All others	2	8	7	10	12	10	16	17	12	17
Asia	26,728	27,442	37,683	38,926	39,988	43,118	45,376	46,205	47,364	41,358
China	134	143	232	245	298	432	522	573	715	685
India	35	47	85	112	131	178	249	342	363	384
Japan	23,053	23,179	30,840	31,104	31,295	33,224	34,858	35,515	35,348	30,341
Malaysia	12	17	23	30	42	39	55	50	80	88
Philippines	4	4	8	11	2	12	14	22	21	18
Singapore	88	94	120	144	218	296	410	427	449	346
South Korea	1,493	1,891	3,259	3,562	3,314	3,538	3,786	3,944	4,428	4,352
Taiwan	1,897	2,057	3,100	3,693	4,667	5,371	5,431	5,298	5,938	5,118
Thailand	11	5	13	20	15	24	44	25	18	16
All others	1	5	3	5	6	4	7	9	4	10
All others	5,006	5,228	6,726	7,043	7,356	8,126	7,896	8,084	7,750	6,687
Share of USPTO applications	Percent distribution									
All regions/countries/economies	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
United States	55.73	55.10	54.43	54.67	54.01	52.76	51.98	52.00	51.29	51.90
EU	15.33	15.72	15.47	15.38	15.93	16.38	16.19	15.88	15.16	14.69

USPTO patents granted for selected regions/countries/economies: 1996–2005

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Austria	0.33	0.34	0.26	0.31	0.32	0.35	0.32	0.35	0.33	0.32
Belgium	0.45	0.46	0.47	0.42	0.44	0.43	0.43	0.37	0.37	0.36
Bulgaria	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Czech Republic	0.01	0.02	0.01	0.02	0.02	0.01	0.02	0.02	0.02	0.02
Denmark	0.22	0.30	0.27	0.32	0.28	0.29	0.25	0.31	0.25	0.25
Finland	0.40	0.40	0.40	0.42	0.39	0.44	0.48	0.51	0.56	0.50
France.....	2.54	2.64	2.49	2.49	2.42	2.43	2.41	2.29	2.06	1.99
Germany	6.22	6.26	6.17	6.08	6.50	6.78	6.74	6.77	6.56	6.27
Greece	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01
Hungary	0.04	0.02	0.03	0.03	0.02	0.04	0.03	0.04	0.03	0.03
Ireland.....	0.07	0.06	0.05	0.06	0.08	0.08	0.08	0.10	0.11	0.11
Italy.....	1.09	1.11	1.07	0.97	1.09	1.03	1.05	1.02	0.96	0.90
Luxembourg.....	0.02	0.02	0.01	0.01	0.03	0.02	0.02	0.02	0.03	0.03
Netherlands.....	0.73	0.72	0.83	0.81	0.79	0.80	0.83	0.78	0.77	0.69
Poland.....	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
Portugal	0.00	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01
Romania.....	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00
Slovenia.....	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Spain	0.14	0.16	0.17	0.14	0.17	0.16	0.18	0.18	0.16	0.19
Sweden.....	0.78	0.77	0.83	0.91	1.00	1.05	1.00	0.90	0.79	0.78
United Kingdom.....	2.24	2.39	2.35	2.33	2.33	2.39	2.30	2.15	2.10	2.19
All others.....	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Asia.....	24.38	24.51	25.54	25.36	25.39	25.97	27.12	27.34	28.83	28.76
China	0.12	0.13	0.16	0.16	0.19	0.26	0.31	0.34	0.44	0.48
India.....	0.03	0.04	0.06	0.07	0.08	0.11	0.15	0.20	0.22	0.27
Japan.....	21.03	20.70	20.91	20.27	19.87	20.01	20.83	21.01	21.52	21.10
Malaysia	0.01	0.02	0.02	0.02	0.03	0.02	0.03	0.03	0.05	0.06
Philippines	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01
Singapore.....	0.08	0.08	0.08	0.09	0.14	0.18	0.25	0.25	0.27	0.24
South Korea	1.36	1.69	2.21	2.32	2.10	2.13	2.26	2.33	2.70	3.03
Taiwan	1.73	1.84	2.10	2.41	2.96	3.23	3.25	3.13	3.61	3.56
Thailand.....	0.01	0.00	0.01	0.01	0.01	0.01	0.03	0.01	0.01	0.01
All others.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01
All others.....	4.57	4.67	4.56	4.59	4.67	4.89	4.72	4.78	4.72	4.65

EU = European Union; USPTO = U.S. Patent and Trademark Office

NOTES: USPTO patents are utility patents, which are patents of inventions. Design, plant, and reissue patents not included. Patents granted assigned to region/country/economy based on residence of first-named inventor. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong. Countries that have <0.01% world share of U.S. patent applications in 2005 grouped in All others.

SOURCE: USPTO, Historic Patents by Country, State, and Year, Utility Patents, http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utilh.htm, accessed 15 December 2006.

EPO patent applications for selected regions/countries/economies: 1985–95

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
All regions/countries/economies	39,376	43,084	45,815	52,184	57,721	63,901	59,254	60,582	60,026	61,918	65,129
United States	10,757	11,695	12,110	13,463	15,018	17,143	16,876	17,604	17,720	18,383	19,518
EU	19,326	21,630	22,837	25,539	27,726	29,430	25,846	27,147	27,046	27,964	29,792
Austria	511	588	533	603	649	671	643	655	615	647	688
Belgium	414	394	461	499	534	627	492	638	729	765	820
Bulgaria	23	18	11	23	14	11	3	2	8	5	6
Czech Republic	13	9	17	49	64	39	24	27	30	21	24
Denmark	216	228	228	240	306	324	336	362	392	432	478
Finland	168	174	215	275	319	402	424	419	519	596	689
France	3,242	3,727	3,823	4,350	4,773	5,102	4,851	4,973	4,673	4,779	4,977
Germany	8,287	9,348	9,851	11,210	12,133	12,756	10,531	11,253	11,366	11,690	12,544
Greece	10	6	18	15	21	25	24	30	27	23	27
Hungary	118	109	103	109	91	91	66	59	50	47	46
Ireland	37	41	48	58	50	67	61	65	75	70	89
Italy	1,211	1,455	1,655	1,968	2,043	2,404	2,133	2,434	2,250	2,300	2,372
Luxembourg	20	28	26	16	30	25	33	32	21	33	25
Netherlands	1,095	1,164	1,276	1,463	1,577	1,699	1,466	1,464	1,472	1,484	1,523
Poland	17	19	30	26	23	18	16	19	13	18	20
Portugal	6	4	9	11	9	5	8	13	11	18	15
Romania	2	1	0	0	0	2	3	4	3	4	8
Slovenia	0	0	0	1	2	5	3	3	16	24	18
Spain	88	121	162	183	206	252	280	292	300	380	386
Sweden	919	958	866	908	887	962	906	958	1,037	1,127	1,347
United Kingdom	2,930	3,236	3,506	3,533	3,996	3,943	3,539	3,437	3,421	3,490	3,681
Asia	6,448	6,762	7,769	9,777	11,463	13,510	13,207	12,229	11,461	11,733	11,749
China	15	67	49	46	69	45	58	61	68	77	67
India	14	18	12	13	27	25	20	23	24	22	26
Japan	6,358	6,606	7,622	9,610	11,233	13,220	12,868	11,800	10,961	11,138	11,121
Malaysia	5	3	4	5	4	7	4	6	9	5	9
Philippines	1	1	4	1	1	2	1	3	0	5	1
Singapore	9	4	6	6	8	24	7	34	45	40	36
South Korea	18	17	13	20	34	64	126	170	220	327	386
Taiwan	24	43	56	74	86	118	120	124	126	114	94
Thailand	3	2	1	2	0	1	1	5	2	4	7
All others	1	1	3	1	1	3	1	2	6	3	2
All others	2,846	2,997	3,099	3,406	3,514	3,818	3,325	3,602	3,798	3,839	4,070
Argentina	427	463	388	367	341	364	358	409	386	428	457
Australia	383	403	452	552	553	637	516	585	578	650	735
Brazil	3	3	3	1	3	5	7	10	5	7	11
Canada	3	2	11	7	11	14	14	14	9	15	12
Chile	34	44	39	31	42	40	20	50	66	53	72
Iceland	122	121	120	114	152	174	133	183	195	161	192
Israel	1,459	1,452	1,497	1,668	1,732	1,874	1,651	1,665	1,757	1,673	1,719

EPO patent applications for selected regions/countries/economies: 1985–95

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Mexico	4	2	2	1	3	5	4	3	1	4	3
New Zealand	5	6	8	7	7	12	18	14	17	16	15
Norway.....	19	31	8	21	19	20	42	30	47	52	42
Russian Federation.....	5	1	1	4	NA	4	6	3	0	1	3
South Africa.....	108	104	152	148	173	229	208	246	276	304	367
Switzerland	21	97	113	200	177	87	70	91	133	130	132
Turkey	76	70	96	71	84	92	58	64	118	103	66
All others.....	179	197	208	215	216	263	220	235	211	241	243

NA = not available

EPO = European Patent Office; EU = European Union

NOTES: Patent applications assigned to year based on application date to EPO. Patent applications on fractional-count basis. For patent applications with multiple inventors from different countries, each country receives fractional credit based on proportion of its participating inventors. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong. Countries that have <0.01% world share of U.S. patent applications in 2005 grouped in All others.

SOURCE: Organisation for Economic Co-operation and Development, Patent database, http://stats.oecd.org/wbos/default.aspx?DatasetCode=PATS_IPC, accessed 15 February 2007.

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EPO patent applications for selected regions/countries/economies: 1996–2004

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004
All regions/countries/economies	71,111	79,956	90,144	97,404	107,714	112,973	110,583	113,003	113,911
United States	21,722	22,992	25,694	27,760	29,918	29,959	29,298	30,826	30,126
EU	31,588	36,693	41,915	45,234	49,642	51,437	51,125	50,571	50,223
Austria	679	767	997	981	1,078	1,187	1,220	1,252	1,309
Belgium	795	978	1,210	1,212	1,314	1,258	1,215	1,260	1,291
Bulgaria	5	5	9	8	10	5	19	21	15
Czech Republic	21	34	54	57	69	65	70	94	109
Denmark	503	622	662	812	853	908	907	934	927
Finland	722	852	1,049	1,192	1,390	1,452	1,369	1,195	1,177
France	5,173	5,727	6,418	6,765	7,238	7,270	7,332	7,500	7,657
Germany	13,173	15,694	17,982	19,697	21,491	22,144	21,823	21,550	21,437
Greece	30	38	58	60	48	62	74	82	72
Hungary	59	58	73	69	114	112	122	102	123
Ireland	98	120	136	180	247	206	231	209	209
Italy	2,621	2,932	3,279	3,412	3,792	3,991	4,097	4,303	4,106
Luxembourg	38	48	53	72	63	77	80	79	98
Netherlands	1,804	2,180	2,453	2,644	3,054	3,415	3,892	3,464	3,355
Poland	12	28	35	24	37	49	56	82	123
Portugal	15	20	21	38	31	45	31	46	53
Romania	7	2	8	6	7	8	12	10	13
Slovenia	23	22	18	37	37	51	52	85	75
Spain	378	483	609	683	743	837	915	903	879
Sweden	1,541	1,829	2,050	2,086	2,257	2,292	2,137	2,063	1,935
United Kingdom	3,871	4,237	4,709	5,171	5,727	5,960	5,428	5,285	5,194
All others	19	20	30	28	41	44	43	52	67
Asia	13,442	15,199	16,375	17,753	20,489	23,504	22,319	23,616	25,238
China	102	103	135	166	269	368	435	673	777
India	42	66	88	118	155	203	382	418	343
Japan	12,660	14,292	15,207	16,121	18,543	21,063	19,175	19,526	20,330
Malaysia	441	495	658	967	1,086	1,330	1,640	2,243	3,000
Philippines	7	12	11	11	23	34	36	42	46
Singapore	3	2	5	7	4	13	4	4	7
South Korea	53	80	95	122	140	147	188	180	195
Taiwan	125	143	161	222	238	320	440	514	527
Thailand	5	3	9	9	20	18	14	12	8
All others	2	3	6	9	11	7	6	5	5
Other	4,359	5,071	6,160	6,658	7,666	8,073	7,842	7,989	8,324
Argentina	503	458	611	675	996	943	940	938	982
Australia	817	941	1,226	1,368	1,587	1,620	1,606	1,761	1,877
Brazil	9	14	19	22	34	34	22	38	29
Canada	25	26	40	32	39	35	44	55	51
Chile	67	79	114	101	147	159	141	175	188
Iceland	241	276	312	330	366	394	366	354	324

EPO patent applications for selected regions/countries/economies: 1996–2004

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004
Israel	1,774	2,143	2,367	2,396	2,582	2,734	2,647	2,656	2,740
Mexico	5	18	15	32	25	46	56	72	71
New Zealand	19	34	30	42	46	44	31	40	44
Norway.....	60	56	78	81	129	112	142	146	154
Russian Federation.....	7	9	11	4	4	11	12	17	14
South Africa.....	367	473	657	757	814	987	899	841	946
Switzerland	156	166	175	223	213	223	221	189	184
Turkey	79	89	138	156	131	146	124	121	129
All others.....	230	289	366	437	552	586	589	583	591

EPO = European Patent Office; EU = European Union

NOTES: Patent applications assigned to year based on application date to EPO. Patent applications on fractional-count basis. For patent applications with multiple inventors from different countries, each country receives fractional credit based on proportion of its participating inventors. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong. Countries that have <0.01% world share of U.S. patent applications in 2005 grouped in All others.

SOURCE: Organisation for Economic Co-operation and Development, Patent database, http://stats.oecd.org/wbos/default.aspx?DatasetCode=PATS_IPC, accessed 15 February 2007.

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EPO patents granted for selected regions/countries/economies: 1996–2006

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Number										
All regions/countries/economies	40,084	39,658	36,733	35,367	27,526	34,710	47,380	59,988	58,727	53,255	59,025
United States	9,833	9,726	9,079	8,848	7,074	8,218	11,200	14,299	13,605	12,466	13,355
EU	18,244	18,492	17,618	17,030	12,996	17,597	24,584	30,813	30,186	27,072	29,471
Austria	436	434	460	375	264	438	583	762	789	686	761
Belgium	401	449	463	429	321	441	560	700	699	607	667
Bulgaria	4	2	2	0	3	3	3	6	2	7	5
Czech Republic	18	15	18	9	7	15	20	29	38	41	34
Denmark	220	291	228	235	199	253	402	521	504	455	485
Finland	307	330	315	360	272	349	474	653	803	669	740
France	3,284	3,343	3,082	2,968	2,170	2,849	3,951	4,958	4,426	3,781	4,289
Germany	8,218	7,876	7,682	7,554	5,585	8,294	11,385	13,653	13,763	12,802	13,802
Greece	9	11	10	14	8	18	15	27	31	18	30
Hungary	31	27	22	26	22	30	56	73	56	43	54
Ireland	42	44	50	40	33	45	69	108	95	88	87
Italy	1,381	1,533	1,333	1,269	1,025	1,302	1,840	2,471	2,447	2,073	2,395
Luxembourg	14	22	32	9	17	34	36	47	48	38	53
Netherlands	977	1,004	938	876	749	875	1,206	1,561	1,485	1,353	1,554
Poland	4	12	13	13	10	11	15	21	20	21	26
Portugal	5	6	11	8	5	7	8	30	19	14	17
Romania	1	4	1	2	1	2	4	3	1	8	1
Slovenia	6	14	12	9	6	14	18	26	32	33	31
Spain	151	158	156	158	155	203	234	408	457	424	435
Sweden	652	686	655	646	556	729	1,076	1,499	1,423	1,217	1,282
United Kingdom	2,079	2,225	2,130	2,020	1,582	1,677	2,615	3,238	3,031	2,672	2,696
All others	6	7	7	8	6	7	14	21	17	22	25
Asia	9,804	9,217	7,966	7,430	5,740	6,868	8,674	10,909	11,264	10,355	12,449
China	33	37	25	23	29	23	52	74	90	103	138
India	11	15	10	13	12	16	29	65	94	98	122
Japan	9,626	8,984	7,732	7,145	5,497	6,596	8,264	10,266	10,450	9,490	11,229
Malaysia	1	6	4	3	2	3	2	8	5	9	14
Philippines	0	0	2	2	0	2	2	3	1	2	1
Singapore	19	19	22	26	15	31	28	61	52	46	59
South Korea	73	113	127	170	163	165	247	355	450	478	725
Taiwan	40	41	42	47	22	28	49	70	115	125	151
Thailand	2	2	2	1	0	5	2	7	7	6	10
All others	3	2	0	2	2	0	1	4	3	2	3
All others	2,203	2,223	2,070	2,059	1,716	2,027	2,922	3,966	3,673	3,361	3,750
Share of EPO patents granted	Percent distribution										
All regions/countries/economies	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
United States	24.53	24.52	24.72	25.02	25.70	23.68	23.64	23.84	23.17	23.41	22.63
EU	45.51	46.63	47.96	48.15	47.21	50.70	51.89	51.37	51.40	50.83	49.93

EPO patents granted for selected regions/countries/economies: 1996–2006

Region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Austria	1.09	1.09	1.25	1.06	0.96	1.26	1.23	1.27	1.34	1.29	1.29
Belgium	1.00	1.13	1.26	1.21	1.17	1.27	1.18	1.17	1.19	1.14	1.13
Bulgaria	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.01
Czech Republic	0.05	0.04	0.05	0.03	0.03	0.04	0.04	0.05	0.07	0.08	0.06
Denmark	0.55	0.73	0.62	0.66	0.72	0.73	0.85	0.87	0.86	0.86	0.82
Finland	0.77	0.83	0.86	1.02	0.99	1.01	1.00	1.09	1.37	1.26	1.25
France.....	8.19	8.43	8.39	8.39	7.88	8.21	8.34	8.27	7.54	7.10	7.27
Germany	20.50	19.86	20.91	21.36	20.29	23.89	24.03	22.76	23.44	24.04	23.38
Greece	0.02	0.03	0.03	0.04	0.03	0.05	0.03	0.04	0.05	0.03	0.05
Hungary	0.08	0.07	0.06	0.07	0.08	0.09	0.12	0.12	0.10	0.08	0.09
Ireland.....	0.10	0.11	0.14	0.11	0.12	0.13	0.15	0.18	0.16	0.17	0.15
Italy.....	3.45	3.86	3.63	3.59	3.72	3.75	3.88	4.12	4.17	3.89	4.06
Luxembourg.....	0.04	0.06	0.09	0.03	0.06	0.10	0.08	0.08	0.08	0.07	0.09
Netherlands.....	2.44	2.53	2.55	2.48	2.72	2.52	2.54	2.60	2.53	2.54	2.63
Poland.....	0.01	0.03	0.03	0.04	0.04	0.03	0.03	0.03	0.03	0.04	0.04
Portugal	0.01	0.02	0.03	0.02	0.02	0.02	0.02	0.05	0.03	0.03	0.03
Romania.....	0.00	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.00
Slovenia.....	0.01	0.03	0.03	0.03	0.02	0.04	0.04	0.04	0.05	0.06	0.05
Spain	0.38	0.40	0.42	0.45	0.56	0.58	0.49	0.68	0.78	0.80	0.74
Sweden.....	1.63	1.73	1.78	1.83	2.02	2.10	2.27	2.50	2.42	2.28	2.17
United Kingdom.....	5.19	5.61	5.80	5.71	5.75	4.83	5.52	5.40	5.16	5.02	4.57
All others.....	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.04	0.03	0.04	0.04
Asia.....	24.46	23.24	21.69	21.01	20.85	19.79	18.31	18.19	19.18	19.45	21.09
China	0.08	0.09	0.07	0.07	0.11	0.07	0.11	0.12	0.15	0.19	0.23
India.....	0.03	0.04	0.03	0.04	0.04	0.05	0.06	0.11	0.16	0.18	0.21
Japan.....	24.01	22.65	21.05	20.20	19.97	19.00	17.44	17.11	17.79	17.82	19.02
Malaysia	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.02	0.02
Philippines	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00
Singapore.....	0.05	0.05	0.06	0.07	0.05	0.09	0.06	0.10	0.09	0.09	0.10
South Korea	0.18	0.29	0.34	0.48	0.59	0.48	0.52	0.59	0.77	0.90	1.23
Taiwan	0.10	0.10	0.11	0.13	0.08	0.08	0.10	0.12	0.20	0.23	0.26
Thailand.....	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01	0.02
All others.....	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01
All others.....	5.50	5.61	5.64	5.82	6.24	5.84	6.17	6.61	6.25	6.31	6.35

EPO = European Patent Office; EU = European Union

NOTES: Patent applications assigned to year based on application date to EPO. Patent applications on fractional-count basis. For patent applications with multiple inventors from different countries, each country receives fractional credit based on proportion of its participating inventors. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong. Countries that have <0.01% world share of U.S. patent applications in 2005 grouped in All others.

SOURCE: Organisation for Economic Co-operation and Development, Patent database, http://stats.oecd.org/wbos/default.aspx?DatasetCode=PATS_IPC, accessed 15 February 2007.

EPO patents granted for selected regions/countries/economies: 1985–95

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
	Number										
All regions/countries/economies	15,129	18,490	17,154	19,760	22,581	24,774	26,664	30,433	36,698	42,025	41,635
United States	3,313	4,453	3,912	4,323	5,086	5,596	5,850	6,822	8,302	9,439	10,016
EU	8,729	10,197	9,487	11,021	12,343	13,293	14,193	16,008	18,671	20,475	19,289
Austria	175	241	219	273	291	384	358	403	486	585	480
Belgium	141	188	152	189	224	244	277	312	325	365	359
Bulgaria	6	5	10	10	16	15	3	4	1	NA	1
Czech Republic	0	5	5	1	6	4	4	8	11	19	17
Denmark	67	88	84	90	109	102	112	162	227	299	203
Finland	41	61	55	65	81	125	122	122	165	241	297
France	1,918	2,057	2,005	2,332	2,344	2,529	2,632	3,051	3,440	3,566	3,590
Germany	4,005	4,604	4,202	5,073	5,736	6,054	6,582	7,391	8,784	9,654	8,878
Greece	3	1	5	4	NA	6	5	2	6	13	7
Hungary	43	66	55	68	59	62	32	49	43	48	47
Ireland	8	10	14	7	12	21	27	28	28	31	39
Italy	345	430	435	526	688	775	931	1,112	1,317	1,445	1,354
Luxembourg	16	23	18	32	18	14	15	23	17	10	23
Netherlands	503	613	550	602	755	815	829	884	1,015	1,125	1,098
Poland	7	6	14	8	12	4	9	10	8	15	7
Portugal	2	NA	3	1	2	3	3	4	4	3	3
Romania	4	4	1	0	1	0	0	0	0	1	0
Slovenia	0	0	0	0	0	0	0	0	3	4	1
Spain	21	43	35	30	55	61	63	68	96	123	140
Sweden	342	443	447	435	515	547	527	575	639	665	648
United Kingdom	1,083	1,309	1,178	1,276	1,419	1,529	1,662	1,799	2,056	2,261	2,095
All others	0	0	0	0	0	1	1	0	0	2	2
Asia	2,010	2,638	2,585	3,065	3,717	4,306	4,907	5,717	7,668	9,777	10,073
China	0	6	2	8	13	12	9	19	33	34	32
India	9	5	3	5	5	5	5	5	12	6	11
Japan	1,989	2,615	2,574	3,036	3,682	4,262	4,870	5,658	7,577	9,666	9,926
Malaysia	0	0	1	1	2	0	1	0	1	4	4
Philippines	0	0	0	0	0	0	1	1	0	0	0
Singapore	2	3	0	3	2	4	3	4	5	6	9
South Korea	1	3	1	3	3	6	3	11	11	27	42
Taiwan	9	6	5	8	11	17	17	19	30	35	46
Thailand	0	0	NA	1	0	0	0	1	0	0	3
All others	0	0	1	1	0	0	1	0	0	2	3
All others	1,078	1,202	1,170	1,351	1,436	1,579	1,713	1,885	2,056	2,334	2,257
	Percent distribution										
All regions/countries/economies	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
United States	21.90	24.08	22.80	21.88	22.52	22.59	21.94	22.42	22.62	22.46	24.06
EU	57.70	55.15	55.31	55.77	54.66	53.66	53.23	52.60	50.88	48.72	46.33

EPO patents granted for selected regions/countries/economies: 1985–95

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Austria	1.16	1.30	1.27	1.38	1.29	1.55	1.34	1.33	1.32	1.39	1.15
Belgium	0.93	1.02	0.89	0.96	0.99	0.99	1.04	1.03	0.89	0.87	0.86
Bulgaria	0.04	0.03	0.06	0.05	0.07	0.06	0.01	0.01	0.00	NA	0.00
Czech Republic	0.00	0.03	0.03	0.01	0.03	0.01	0.02	0.03	0.03	0.04	0.04
Denmark	0.44	0.48	0.49	0.46	0.48	0.41	0.42	0.53	0.62	0.71	0.49
Finland	0.27	0.33	0.32	0.33	0.36	0.50	0.46	0.40	0.45	0.57	0.71
France.....	12.68	11.13	11.69	11.80	10.38	10.21	9.87	10.03	9.38	8.48	8.62
Germany	26.47	24.90	24.50	25.67	25.40	24.44	24.68	24.29	23.94	22.97	21.32
Greece	0.02	0.01	0.03	0.02	NA	0.02	0.02	0.01	0.02	0.03	0.02
Hungary	0.28	0.35	0.32	0.34	0.26	0.25	0.12	0.16	0.12	0.12	0.11
Ireland.....	0.05	0.05	0.08	0.03	0.05	0.08	0.10	0.09	0.08	0.07	0.09
Italy.....	2.28	2.32	2.54	2.66	3.05	3.13	3.49	3.65	3.59	3.44	3.25
Luxembourg.....	0.10	0.12	0.11	0.16	0.08	0.05	0.06	0.08	0.05	0.02	0.06
Netherlands.....	3.32	3.32	3.20	3.05	3.34	3.29	3.11	2.91	2.77	2.68	2.64
Poland.....	0.05	0.03	0.08	0.04	0.05	0.02	0.03	0.03	0.02	0.04	0.02
Portugal	0.01	NA	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Romania.....	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slovenia.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00
Spain	0.14	0.23	0.21	0.15	0.24	0.25	0.23	0.22	0.26	0.29	0.34
Sweden.....	2.26	2.39	2.61	2.20	2.28	2.21	1.98	1.89	1.74	1.58	1.56
United Kingdom.....	7.16	7.08	6.87	6.46	6.28	6.17	6.23	5.91	5.60	5.38	5.03
All others.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asia.....	13.29	14.27	15.07	15.51	16.46	17.38	18.40	18.79	20.90	23.26	24.19
China	0.00	0.03	0.01	0.04	0.06	0.05	0.03	0.06	0.09	0.08	0.08
India.....	0.06	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.03	0.01	0.03
Japan.....	13.15	14.14	15.00	15.37	16.30	17.20	18.26	18.59	20.65	23.00	23.84
Malaysia	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01
Philippines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Singapore.....	0.01	0.02	0.00	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02
South Korea	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.04	0.03	0.06	0.10
Taiwan	0.06	0.03	0.03	0.04	0.05	0.07	0.06	0.06	0.08	0.08	0.11
Thailand.....	0.00	0.00	NA	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
All others.....	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
All others.....	7.12	6.50	6.82	6.84	6.36	6.37	6.43	6.19	5.60	5.55	5.42

NA = not available

EPO = European Patent Office; EU = European Union

NOTES: Patent applications assigned to year based on application date to EPO. Patent applications on fractional-count basis. For patent applications with multiple inventors from different countries, each country receives fractional credit based on proportion of its participating inventors. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong. Countries that have <0.01% world share of U.S. patent applications in 2005 grouped in All others.

SOURCE: Organisation for Economic Co-operation and Development, Patent database, http://stats.oecd.org/wbos/default.aspx?DatasetCode=PATS_IPC, accessed 15 February 2007.

ICT patents granted by USPTO and EPO for selected regions/countries/economies: 1985–95

Agency and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
USPTO											
All regions/countries/economies	14,653	15,607	19,611	18,285	23,288	21,061	23,472	24,229	25,830	28,686	30,397
United States.....	7,604	7,945	9,503	8,616	10,962	9,962	11,139	11,678	12,395	14,101	15,048
EU	2,524	2,646	3,364	3,123	3,725	3,142	3,273	2,845	2,932	3,151	3,375
Austria	31	41	40	46	46	37	52	50	50	45	41
Belgium	41	33	28	34	42	29	44	40	62	52	57
Bulgaria	5	6	2	2	4	5	2	1	0	0	0
Czech Republic	5	1	2	3	2	5	2	1	2	4	1
Denmark.....	18	25	22	19	31	25	21	22	23	27	21
Finland.....	18	30	48	35	25	34	52	53	61	93	103
France.....	514	515	641	588	725	616	677	625	665	654	708
Germany.....	972	930	1,209	1,196	1,375	1,130	1,182	978	997	1,068	1,109
Greece	1	1	1	1	1	1	2	2	2	3	2
Hungary.....	12	23	14	9	6	9	6	3	2	2	5
Ireland.....	7	5	10	12	13	13	14	14	13	12	23
Italy.....	111	132	192	162	178	181	148	169	170	164	156
Luxembourg.....	3	4	1	2	0	1	4	4	1	0	2
Netherlands.....	222	239	343	267	347	310	309	226	226	284	304
Poland.....	3	5	2	2	3	5	2	1	1	2	1
Portugal	0	0	0	0	1	0	1	1	0	0	1
Romania.....	0	0	0	0	0	0	0	0	0	1	2
Slovenia.....	0	0	0	0	0	0	0	0	1	0	1
Spain	3	4	6	8	9	6	9	10	23	18	15
Sweden.....	111	105	126	113	137	90	76	93	107	138	157
United Kingdom.....	448	549	678	624	782	647	672	551	525	585	668
All others.....	0	0	0	0	0	0	0	0	0	1	1
Asia.....	3,996	4,493	6,115	5,933	7,843	7,270	8,240	9,001	9,786	10,586	11,105
China	4	5	11	14	16	21	16	21	26	18	33
India.....	1	1	1	2	0	3	3	6	1	4	9
Japan.....	3,970	4,464	6,055	5,858	7,701	7,071	7,894	8,545	9,115	9,713	9,978
Malaysia	0	0	0	0	0	0	5	1	8	4	3
Philippines	0	0	0	0	0	0	0	0	0	0	1
Singapore.....	1	0	2	0	4	5	3	12	22	26	24
South Korea	5	5	15	23	57	88	214	293	440	598	696
Taiwan	15	18	31	36	63	81	103	123	174	221	362
Thailand.....	0	0	0	1	1	0	2	0	0	0	1
All others.....	1	0	0	0	0	0	0	1	0	1	0
All others.....	530	523	628	613	758	687	820	704	716	849	869
EPO											
All regions/countries/economies	3,069	3,599	3,787	4,213	4,986	5,632	6,273	6,947	8,643	10,524	11,169
United States.....	787	984	964	1,117	1,365	1,533	1,672	1,884	2,339	2,583	2,904
EU	1,553	1,638	1,793	1,979	2,151	2,447	2,660	2,829	3,328	3,931	3,784
Austria	6	20	18	34	32	25	36	38	39	70	48

ICT patents granted by USPTO and EPO for selected regions/countries/economies: 1985–95

Agency and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Belgium	23	28	17	19	14	31	30	34	34	58	54
Bulgaria	0	2	0	1	1	3	0	0	0	0	0
Czech Republic	0	2	1	0	1	0	0	0	0	1	1
Denmark	6	16	16	8	9	12	15	19	29	44	24
Finland	4	8	5	9	12	12	11	8	19	32	68
France	437	392	484	481	493	595	588	707	754	826	888
Germany	667	662	724	870	912	998	1,138	1,196	1,372	1,688	1,493
Greece	1	0	0	1	0	1	2	0	1	2	0
Hungary	6	14	15	11	7	7	1	2	4	1	4
Ireland	1	1	3	0	3	4	3	5	6	2	8
Italy	44	44	53	58	84	83	102	128	171	181	218
Luxembourg	2	0	0	1	1	1	2	2	1	1	2
Netherlands	124	168	165	155	222	268	245	238	289	345	337
Poland	0	1	0	1	4	2	1	2	1	2	0
Portugal	0	0	0	0	0	0	0	1	0	2	1
Romania	0	1	0	0	0	0	0	0	0	0	0
Slovenia	0	0	0	0	0	0	0	0	0	0	0
Spain	0	0	2	0	2	3	6	2	6	7	21
Sweden	53	74	49	56	57	68	79	64	80	118	108
United Kingdom	178	206	242	277	297	335	402	384	521	552	509
All others	0	0	0	0	0	0	0	0	0	0	0
Asia	569	852	866	980	1,259	1,431	1,709	1,969	2,685	3,634	4,109
China	0	1	1	0	1	1	2	3	4	2	5
India	0	0	0	0	0	0	0	0	1	0	1
Japan	567	849	864	979	1,258	1,426	1,704	1,962	2,674	3,620	4,076
Malaysia	0	0	0	0	0	0	1	0	0	0	1
Philippines	0	0	0	0	0	0	0	0	0	0	0
Singapore	0	0	0	0	0	3	1	1	2	0	2
South Korea	0	2	0	0	0	0	0	2	2	5	17
Taiwan	2	1	1	0	0	1	1	1	3	5	6
Thailand	0	0	0	0	0	0	0	0	0	0	0
All others	0	0	0	0	0	0	0	0	0	0	0
All others	160	124	163	137	211	221	232	265	291	377	373

EPO = European Patent Office; EU = European Union; ICT = information and communications technologies; USPTO = U.S. Patent and Trademark Office

NOTES: USPTO and EPO patents on fractional-count basis. For patents with multiple inventors from different countries, each country receives fractional credit based on proportion of its participating inventors. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong. Countries that have <0.01% world share of U.S. patent applications in 2005 grouped in All others.

SOURCE: Organisation for Economic Co-operation and Development, Patent database, http://stats.oecd.org/wbos/default.aspx?DatasetCode=PATS_IPC, accessed 15 February 2007.

ICT patents granted by USPTO and EPO for selected regions/countries/economies: 1996–2006

Agency and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
USPTO											
All regions/countries/economies	34,603	34,335	50,396	51,258	55,069	59,757	63,152	67,562	71,319	65,614	77,982
United States.....	17,302	17,362	25,714	26,419	28,506	30,797	32,067	34,357	36,003	33,165	39,281
EU	3,737	3,537	5,095	5,117	5,829	6,501	7,128	7,663	7,841	7,277	8,415
Austria	36	45	61	67	88	86	82	142	141	123	151
Belgium	89	82	139	124	129	144	130	153	175	146	176
Bulgaria	0	0	0	1	0	0	2	0	1	2	4
Czech Republic	0	3	2	5	4	5	15	13	9	13	12
Denmark.....	31	25	29	68	60	54	82	110	121	105	141
Finland.....	134	130	217	261	277	310	384	450	512	415	553
France.....	749	692	905	885	928	981	1,072	1,092	1,127	1,054	1,241
Germany.....	1,150	1,088	1,598	1,566	1,922	2,209	2,452	2,849	2,874	2,756	3,030
Greece	5	2	4	4	4	5	3	6	3	5	8
Hungary.....	4	3	9	8	4	9	8	23	9	14	19
Ireland.....	26	31	27	29	36	65	55	77	96	69	98
Italy.....	207	235	330	284	328	407	401	411	370	340	394
Luxembourg.....	0	0	0	1	2	3	4	3	3	4	0
Netherlands.....	314	268	438	397	388	407	490	498	501	386	517
Poland.....	5	2	3	3	5	2	4	5	8	10	11
Portugal	1	3	1	2	3	4	2	0	2	4	5
Romania.....	1	1	0	0	0	2	1	2	4	4	7
Slovenia.....	3	2	1	0	3	5	6	0	1	2	4
Spain	19	19	35	30	57	54	64	77	64	77	78
Sweden.....	238	212	315	399	524	544	580	498	425	426	467
United Kingdom.....	725	696	979	983	1,063	1,204	1,287	1,249	1,392	1,316	1,486
All others.....	0	1	3	2	3	2	4	5	3	8	14
Asia.....	12,518	12,387	18,029	18,146	18,998	20,402	21,774	23,019	24,770	22,635	26,988
China	33	27	50	46	62	79	100	132	197	254	372
India.....	11	10	15	16	23	37	50	95	117	168	219
Japan.....	11,062	10,578	14,888	14,540	14,791	15,584	16,847	17,890	18,776	16,724	19,568
Malaysia	0	6	3	9	16	18	27	23	39	59	74
Philippines	1	0	2	5	4	4	6	15	19	15	14
Singapore.....	39	63	80	92	146	216	317	313	332	248	263
South Korea	888	1,077	1,954	2,110	2,133	2,295	2,360	2,462	2,806	2,854	3,722
Taiwan	480	623	1,033	1,325	1,818	2,165	2,050	2,080	2,477	2,309	2,747
Thailand.....	4	1	3	2	5	3	17	10	5	3	7
All others.....	0	1	1	2	1	1	1	1	2	0	2
All others.....	1,046	1,049	1,558	1,576	1,736	2,057	2,184	2,524	2,704	2,537	3,297
EPO											
All regions/countries/economies	11,265	11,133	10,278	9,803	7,527	9,594	12,796	15,149	14,237	14,507	17,256
United States.....	3,070	3,055	2,876	2,788	2,306	2,746	3,603	4,297	3,784	3,692	4,397
EU	3,474	3,562	3,551	3,348	2,497	3,562	5,031	6,047	5,883	6,245	6,923
Austria	50	50	52	50	36	60	89	104	99	108	114

ICT patents granted by USPTO and EPO for selected regions/countries/economies: 1996–2006

Agency and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Belgium	57	80	88	74	56	85	83	88	121	133	140
Bulgaria	0	0	0	0	0	1	0	1	0	1	1
Czech Republic	0	2	2	1	0	2	1	6	3	5	3
Denmark	27	34	24	24	20	38	61	73	73	87	86
Finland	71	100	85	104	85	123	160	244	339	355	372
France	766	732	739	627	474	632	830	1,052	919	881	1,047
Germany	1,340	1,298	1,313	1,253	880	1,487	2,175	2,410	2,448	2,612	2,841
Greece	0	1	0	2	2	0	2	4	2	3	1
Hungary	1	2	3	4	4	4	3	5	6	7	11
Ireland	9	10	13	14	10	11	14	19	18	27	23
Italy	182	226	208	211	147	216	247	345	291	298	327
Luxembourg	2	3	3	1	1	0	3	3	9	6	3
Netherlands	314	351	310	269	244	270	323	436	413	489	645
Poland	0	4	0	3	0	1	3	1	3	5	4
Portugal	0	1	1	2	0	0	1	1	0	1	1
Romania	0	2	0	0	1	1	0	0	0	0	0
Slovenia	4	4	3	1	0	2	3	4	5	6	3
Spain	18	15	11	18	10	28	29	39	47	76	70
Sweden	97	118	107	106	96	138	237	295	321	377	425
United Kingdom	536	532	589	583	430	462	764	913	762	764	795
All others	0	0	1	2	0	1	3	3	2	2	10
Asia	4,344	4,126	3,484	3,288	2,434	2,906	3,600	4,071	3,869	3,873	5,033
China	4	2	3	4	5	3	5	10	16	25	44
India	2	0	2	2	1	0	1	8	9	10	16
Japan	4,291	4,062	3,400	3,170	2,342	2,812	3,465	3,867	3,582	3,545	4,515
Malaysia	0	2	1	1	0	1	1	0	1	3	4
Philippines	0	0	0	0	0	0	0	0	0	0	0
Singapore	9	8	12	9	3	16	16	32	29	23	33
South Korea	32	47	61	88	77	68	98	134	199	238	380
Taiwan	6	5	6	13	6	6	15	19	32	29	40
Thailand	0	0	1	0	0	0	0	0	1	0	1
All others	0	0	0	1	0	0	0	0	0	0	0
All others	378	391	367	379	291	381	562	734	702	697	903

EPO = European Patent Office; EU = European Union; ICT = information and communications technologies; USPTO = U.S. Patent and Trademark Office

NOTES: USPTO and EPO patents on fractional-count basis. For patents with multiple inventors from different countries, each country receives fractional credit based on proportion of its participating inventors. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong. Countries that have <0.01% world share of U.S. patent applications in 2005 grouped in All others.

SOURCE: Organisation for Economic Co-operation and Development, Patent database, http://stats.oecd.org/wbos/default.aspx?DatasetCode=PATS_IPC, accessed 15 February 2007.

Appendix table 6-47

Activity index of ICT patents granted by USPTO and EPO for selected regions/countries/economies: Selected years, 1993–2006

Agency and region/country/economy	1993	1995	1997	1999	2001	2003	2005	2006
USPTO								
United States.....	0.89	0.90	0.92	0.95	0.98	0.98	0.98	0.98
EU	0.68	0.69	0.65	0.64	0.66	0.71	0.75	0.76
Austria	0.60	0.40	0.39	0.41	0.41	0.60	0.60	0.60
Belgium.....	0.66	0.47	0.52	0.56	0.54	0.60	0.61	0.62
Czech Republic.....	0.50	0.11	0.39	0.53	0.58	0.70	0.83	0.73
Denmark	0.44	0.36	0.25	0.42	0.31	0.51	0.62	0.70
Finland	0.79	0.96	0.93	1.20	1.16	1.30	1.25	1.31
France.....	0.87	0.84	0.76	0.69	0.67	0.70	0.80	0.79
Germany	0.55	0.56	0.51	0.50	0.54	0.62	0.67	0.67
Greece	1.32	0.59	0.56	0.51	0.46	0.69	0.71	0.76
Hungary	0.12	0.30	0.31	0.55	0.42	0.76	0.63	0.79
Ireland.....	0.94	1.44	1.36	0.89	1.29	1.17	0.96	1.19
Italy	0.50	0.48	0.61	0.56	0.65	0.60	0.57	0.59
Netherlands.....	1.07	1.25	1.06	0.94	0.85	0.94	0.84	0.86
Poland.....	0.48	0.16	0.33	0.30	0.24	0.47	0.80	0.61
Spain.....	0.54	0.32	0.33	0.38	0.54	0.59	0.62	0.54
Sweden.....	0.64	0.65	0.80	0.85	0.87	0.83	0.82	0.85
United Kingdom.....	0.86	0.89	0.84	0.82	0.84	0.86	0.91	0.92
Asia.....	1.52	1.49	1.47	1.39	1.31	1.24	1.20	1.17
China	0.80	0.67	0.58	0.51	0.48	0.54	0.75	0.78
India.....	0.08	0.72	0.63	0.41	0.56	0.67	0.92	0.95
Japan.....	1.56	1.53	1.49	1.40	1.30	1.26	1.21	1.18
Malaysia.....	2.07	1.37	1.10	0.88	1.44	1.14	1.38	1.34
Singapore.....	2.15	1.48	2.10	1.85	1.95	1.79	1.58	1.45
South Korea.....	2.14	1.99	1.85	1.77	1.80	1.56	1.43	1.41
Taiwan	0.56	0.75	0.98	1.07	1.11	0.98	0.99	0.97
EPO								
United States.....	1.20	1.08	1.12	1.14	1.21	1.19	1.09	1.13
EU	0.76	0.73	0.69	0.71	0.73	0.78	0.85	0.80
Austria	0.34	0.37	0.41	0.48	0.50	0.54	0.58	0.51
Belgium.....	0.45	0.56	0.64	0.62	0.69	0.50	0.80	0.72
Czech Republic.....	NA	0.22	0.49	0.26	0.39	0.75	0.46	0.32
Denmark	0.55	0.43	0.41	0.37	0.55	0.55	0.70	0.61
Finland	0.50	0.85	1.07	1.05	1.27	1.48	1.95	1.72
France.....	0.93	0.92	0.78	0.76	0.80	0.84	0.86	0.84
Germany	0.66	0.63	0.59	0.60	0.65	0.70	0.75	0.70
Greece	0.73	NA	0.33	0.52	0.07	0.63	0.54	0.09
Hungary	0.43	0.32	0.27	0.59	0.50	0.29	0.62	0.72
Ireland.....	0.85	0.80	0.77	1.25	0.88	0.71	1.13	0.90
Italy.....	0.55	0.60	0.53	0.60	0.60	0.55	0.53	0.47
Netherlands.....	1.21	1.15	1.24	1.11	1.11	1.11	1.33	1.42
Poland.....	0.55	NA	1.15	0.96	0.41	0.23	0.92	0.53
Spain.....	0.27	0.57	0.33	0.41	0.49	0.38	0.66	0.55
Sweden.....	0.53	0.62	0.61	0.59	0.68	0.78	1.14	1.13
United Kingdom.....	1.08	0.91	0.85	1.04	1.00	1.12	1.05	1.01
Asia.....	1.49	1.52	1.59	1.60	1.53	1.48	1.37	1.38
China	0.54	0.63	0.19	0.57	0.44	0.54	0.88	1.08
India.....	0.17	0.28	0.02	0.47	NA	0.46	0.37	0.46
Japan.....	1.50	1.53	1.61	1.60	1.54	1.49	1.37	1.38
Singapore.....	1.67	0.86	1.44	1.29	1.90	2.06	1.85	1.94
South Korea.....	0.81	1.51	1.50	1.87	1.48	1.49	1.83	1.79
Taiwan	0.43	0.49	0.45	1.03	0.81	1.10	0.85	0.92

NA = not available

EPO = European Patent Office; EU = European Union; ICT = information and communications technologies; USPTO = U.S. Patent and Trademark Office

NOTES: ICT activity index is region/country/economy's world share of ICT patents relative to its world share of all patents. Activity index of <1 or >1 indicates region/country/economy patents less or more intensively in ICT relative to other technology areas. USPTO and EPO patents on fractional-count basis. For patents with multiple inventors from different countries, each country receives fractional credit based on proportion of its participating inventors. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong.

SOURCE: Organisation for Economic Co-operation and Development, Patent database, http://stats.oecd.org/wbos/default.aspx?DatasetCode=PATS_IPC, accessed 15 February 2007.

Biotechnology patents granted by USPTO and EPO for selected regions/countries/economies: 1985–95

Agency and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
USPTO											
All regions/countries/economies	619	684	954	968	1,222	1,199	1,313	1,646	1,969	1,874	2,138
United States.....	359	388	584	591	760	684	802	994	1,218	1,137	1,351
EU.....	101	121	187	172	218	225	224	277	316	318	347
Austria	0	2	3	2	3	4	2	7	11	11	8
Belgium	2	4	6	7	7	6	7	6	10	11	16
Bulgaria	0	0	0	0	0	0	0	0	0	0	0
Czech Republic	0	0	2	0	2	1	0	1	0	1	1
Denmark.....	7	9	5	1	9	8	6	8	12	18	18
Finland.....	3	4	8	5	2	7	5	10	7	6	11
France.....	12	13	23	24	31	36	40	40	47	51	48
Germany.....	38	42	69	62	79	64	76	98	102	94	116
Greece	0	0	0	0	0	0	0	0	1	1	0
Hungary.....	5	6	7	4	2	1	2	3	2	3	3
Ireland.....	0	1	1	0	1	0	2	2	2	1	1
Italy.....	3	7	10	3	7	15	10	19	20	23	17
Luxembourg.....	0	0	0	0	1	0	0	0	0	0	0
Netherlands.....	5	5	10	8	10	17	19	21	26	25	17
Poland.....	0	0	0	0	0	0	1	0	0	0	0
Portugal	0	0	0	0	0	0	0	0	0	0	0
Romania.....	0	0	0	0	0	0	0	0	0	1	0
Slovenia.....	0	0	0	0	0	0	0	0	0	0	0
Spain	0	1	1	2	2	4	3	3	3	3	5
Sweden.....	7	5	14	9	15	10	7	15	16	15	21
United Kingdom.....	18	24	30	44	49	53	46	45	57	57	68
All others.....	0	0	0	0	0	0	0	0	0	0	0
Asia.....	127	143	134	150	175	226	199	289	313	306	305
China	0	0	0	0	2	2	1	0	0	2	4
India.....	0	1	0	2	0	2	0	0	3	0	5
Japan.....	126	141	134	148	172	220	193	284	299	293	280
Malaysia	0	0	0	0	0	0	0	0	0	0	0
Philippines	0	0	0	0	0	0	0	0	0	0	1
Singapore.....	0	0	0	0	0	0	0	0	0	1	0
South Korea	1	0	0	1	0	1	3	2	8	4	11
Taiwan	0	0	0	0	1	2	1	3	3	6	4
Thailand.....	0	0	0	0	0	0	0	0	0	0	0
All others.....	0	0	0	0	0	0	0	0	0	0	0
All others.....	33	32	49	56	69	64	89	86	122	113	135
EPO											
All regions/countries/economies	325	349	289	300	465	533	700	994	1,176	1,312	1,313
United States.....	100	103	90	79	145	157	226	406	390	499	525
EU.....	133	151	115	142	192	215	246	313	457	450	436
Austria	3	0	2	3	10	7	4	6	13	12	14

Biotechnology patents granted by USPTO and EPO for selected regions/countries/economies: 1985–95

Agency and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Belgium	3	2	5	3	9	9	9	10	18	11	14
Bulgaria	0	0	0	1	0	0	0	0	0	0	1
Czech Republic	0	1	1	0	0	0	1	0	0	0	0
Denmark	1	3	2	3	7	3	4	7	38	27	19
Finland	2	3	1	1	0	1	4	8	5	7	5
France	18	31	24	30	33	42	31	48	75	75	75
Germany	61	62	49	55	64	81	101	118	148	153	154
Greece	0	0	0	0	0	0	0	0	1	0	0
Hungary	1	5	0	2	0	0	1	0	3	3	4
Ireland	0	1	0	0	0	1	0	0	1	0	2
Italy	3	3	3	7	7	6	10	17	25	29	25
Luxembourg	0	0	0	0	0	0	1	0	0	0	0
Netherlands	9	5	5	3	15	15	11	16	19	31	33
Poland	0	0	0	0	0	0	0	0	0	0	0
Portugal	0	0	0	0	0	0	0	0	0	0	0
Romania	0	0	0	0	0	0	0	0	0	0	0
Slovenia	0	0	0	0	0	0	0	0	0	0	0
Spain	0	0	1	0	1	2	3	3	3	4	4
Sweden	12	11	4	7	8	11	13	17	16	21	14
United Kingdom	19	24	20	27	39	37	54	62	94	78	72
All others	0	0	0	0	0	0	0	0	0	0	0
Asia	74	80	64	72	105	134	186	220	272	299	255
China	0	0	0	0	0	0	0	0	1	1	0
India	0	0	0	0	2	1	1	3	0	1	1
Japan	74	80	64	72	103	133	184	215	270	296	249
Malaysia	0	0	0	0	0	0	0	0	0	0	0
Philippines	0	0	0	0	0	0	0	1	0	0	0
Singapore	0	0	0	0	0	0	0	0	0	0	1
South Korea	0	0	0	0	0	0	1	1	2	2	4
Taiwan	0	0	0	0	0	0	0	0	0	0	1
Thailand	0	0	0	0	0	0	0	0	0	0	0
All others	0	0	0	0	0	0	0	0	0	0	0
All others	18	15	21	7	23	27	42	54	57	64	97

EPO = European Patent Office; EU = European Union; USPTO = U.S. Patent and Trademark Office

NOTES: Patent applications assigned to year based on application date to EPO. Patent applications on fractional-count basis. For patent applications with multiple inventors from different countries, each country receives fractional credit based on proportion of its participating inventors. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong. Countries that have <0.01% world share of U.S. patent applications in 2005 grouped in All others.

SOURCE: Organisation for Economic Co-operation and Development, Patent database, http://stats.oecd.org/wbos/default.aspx?DatasetCode=PATS_IPC, accessed 15 February 2007.

Biotechnology patents granted by USPTO and EPO for selected regions/countries/economies: 1996–2006

Agency and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
USPTO											
All regions/countries/economies	3,101	4,255	6,315	6,290	5,630	6,270	5,703	5,290	4,764	4,232	5,194
United States.....	2,050	2,943	4,253	4,189	3,788	4,092	3,780	3,438	3,098	2,725	3,269
EU	495	695	1,046	1,110	1,008	1,154	997	985	866	753	856
Austria	14	22	34	27	24	28	23	21	21	23	15
Belgium	26	29	58	68	55	57	50	51	53	35	43
Bulgaria	0	1	0	0	2	1	0	0	0	0	0
Czech Republic	2	1	1	4	4	3	2	0	1	1	1
Denmark.....	25	57	86	89	89	97	71	84	42	49	56
Finland.....	15	16	26	37	15	26	20	14	14	14	16
France.....	86	132	182	185	175	188	156	188	131	142	147
Germany.....	133	154	233	249	226	293	262	276	257	201	241
Greece.....	3	0	1	1	2	2	2	2	1	0	1
Hungary.....	3	3	5	3	2	4	6	5	6	6	4
Ireland.....	3	3	2	4	4	6	5	4	7	5	8
Italy.....	24	29	46	52	32	33	37	33	24	33	36
Luxembourg.....	0	0	0	0	1	0	0	0	0	0	0
Netherlands.....	28	66	85	84	94	81	67	64	64	59	55
Poland.....	2	1	2	3	0	1	1	0	3	1	3
Portugal.....	0	0	0	0	1	1	1	0	1	0	1
Romania.....	0	0	0	0	0	1	0	0	0	0	0
Slovenia.....	0	1	3	2	0	1	1	1	1	1	1
Spain.....	8	5	9	14	10	13	14	11	11	13	13
Sweden.....	22	29	52	52	49	63	55	59	53	39	44
United Kingdom.....	103	146	220	234	220	254	222	172	175	129	169
All others.....	1	0	2	2	2	2	3	0	1	2	3
Asia.....	349	380	608	554	443	557	515	498	468	469	677
China.....	0	1	10	5	8	11	17	18	21	27	35
India.....	3	7	10	8	9	19	28	36	31	24	32
Japan.....	324	347	537	471	384	437	396	367	351	344	458
Malaysia.....	1	1	0	1	0	0	0	2	1	0	2
Philippines.....	0	0	0	1	1	0	0	0	0	0	0
Singapore.....	2	0	7	6	5	7	1	7	7	8	12
South Korea.....	14	14	26	44	21	50	39	48	35	38	79
Taiwan.....	5	9	17	17	13	34	33	20	21	27	56
Thailand.....	0	0	0	2	2	0	0	0	1	1	3
All others.....	0	0	0	0	0	0	0	0	0	0	0
All others.....	207	237	409	436	391	467	411	369	333	284	393
EPO											
All regions/countries/economies	1,178	1,043	941	934	854	1,037	1,394	1,751	1,942	2,064	2,695
United States.....	509	412	375	399	361	417	564	720	710	771	1,043
EU	387	411	350	334	319	397	527	681	801	841	1,022
Austria.....	13	9	10	10	9	19	12	17	19	23	19

Biotechnology patents granted by USPTO and EPO for selected regions/countries/economies: 1996–2006

Agency and region/country/economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Belgium	13	10	10	11	15	19	19	28	45	47	40
Bulgaria	0	0	1	0	0	2	0	0	0	1	0
Czech Republic	0	0	0	1	1	0	0	0	1	3	0
Denmark	10	16	18	16	14	19	23	30	43	40	60
Finland	18	8	9	8	6	12	16	10	16	16	19
France	63	65	59	47	40	44	76	103	124	122	188
Germany	133	117	103	88	102	138	195	208	261	284	342
Greece	0	1	0	0	1	1	0	2	1	1	2
Hungary	1	3	1	2	1	1	1	4	3	2	2
Ireland	3	3	5	4	1	2	5	4	4	5	10
Italy	18	25	19	18	21	13	18	25	30	33	45
Luxembourg	0	0	0	0	0	0	1	0	0	0	0
Netherlands	27	17	25	31	23	31	40	49	63	48	65
Poland	0	1	1	0	0	0	1	1	0	1	1
Portugal	0	0	0	1	0	0	0	2	0	1	1
Romania	0	0	0	0	0	1	0	0	0	0	0
Slovenia	0	1	1	1	0	1	0	1	2	2	0
Spain	0	10	6	4	3	5	3	8	16	15	15
Sweden	16	13	10	13	13	14	31	32	30	33	40
United Kingdom	73	111	75	75	68	76	87	159	142	162	174
All others	0	0	0	2	0	1	0	0	1	2	1
Asia	217	150	145	122	118	143	189	229	266	274	404
China	0	0	0	0	0	1	2	1	3	4	6
India	1	1	1	2	1	2	1	4	4	11	14
Japan	215	146	141	117	113	131	173	212	244	230	354
Malaysia	0	0	0	0	0	0	0	0	1	0	1
Philippines	0	0	1	0	0	1	0	0	0	0	0
Singapore	0	1	1	1	0	1	0	0	3	4	2
South Korea	1	1	1	2	4	9	10	10	11	26	29
Taiwan	0	0	1	0	1	0	3	3	3	4	5
Thailand	0	0	0	0	0	0	0	0	0	0	0
All others	0	0	0	0	0	0	0	0	0	0	0
All others	65	71	71	80	56	80	114	121	165	177	226

EPO = European Patent Office; EU = European Union; USPTO = U.S. Patent and Trademark Office

NOTES: Patent applications assigned to year based on application date to EPO. Patent applications on fractional-count basis. For patent applications with multiple inventors from different countries, each country receives fractional credit based on proportion of its participating inventors. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong. Countries that have <0.01% world share of U.S. patent applications in 2005 grouped in All others.

SOURCE: Organisation for Economic Co-operation and Development, Patent database, http://stats.oecd.org/wbos/default.aspx?DatasetCode=PATS_IPC, accessed 15 February 2007.

Triadic patent families for selected regions/countries/economies: 1985–94

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
	Number									
All regions/countries/economies	22,881	24,540	28,157	30,693	33,205	32,769	29,973	30,036	30,685	32,202
United States.....	7,812	8,157	9,063	10,073	10,908	11,171	10,237	10,610	10,520	11,095
EU	8,449	9,026	9,875	10,327	10,636	9,994	9,187	9,493	9,859	10,838
Austria	161	157	181	210	200	171	174	147	173	209
Belgium.....	164	174	190	190	247	224	240	295	329	348
Bulgaria.....	7	4	7	4	2	0	1	1	3	1
Czech Republic.....	7	8	7	12	11	7	9	7	7	5
Denmark.....	81	94	102	113	115	127	106	135	160	176
Finland.....	55	91	107	112	130	150	162	225	243	340
France.....	1,487	1,548	1,751	1,825	1,932	1,919	1,784	1,651	1,697	1,874
Germany.....	3,610	3,842	4,261	4,457	4,444	4,115	3,681	3,874	4,001	4,361
Greece.....	2	2	3	3	3	4	5	6	3	4
Hungary.....	45	31	39	22	45	30	22	19	23	20
Ireland.....	17	18	22	19	24	27	27	23	19	28
Italy.....	510	551	589	633	658	646	663	579	629	622
Luxembourg.....	15	17	3	7	5	17	9	9	14	7
Netherlands.....	553	616	711	695	708	591	569	614	594	649
Poland.....	3	3	5	5	3	5	9	5	12	4
Portugal.....	2	2	2	2	0	1	3	4	4	2
Romania.....	0	0	0	0	0	0	1	0	2	2
Slovenia.....	0	0	0	0	0	1	2	6	6	3
Spain.....	34	37	48	48	68	73	70	65	73	85
Sweden.....	426	428	390	371	448	432	391	517	500	631
United Kingdom.....	1,272	1,401	1,457	1,599	1,592	1,454	1,254	1,306	1,363	1,465
All others.....	0	1	0	0	1	0	3	5	3	2
Asia.....	5,319	5,984	7,607	8,732	10,041	10,057	9,067	8,394	8,747	8,567
China.....	39	16	23	17	20	23	27	27	33	32
India.....	5	5	4	11	7	12	9	5	8	6
Japan.....	5,264	5,953	7,561	8,664	9,962	9,940	8,894	8,196	8,495	8,263
Malaysia.....	0	0	1	2	3	2	4	5	3	1
Philippines.....	0	0	0	0	1	0	1	1	1	1
Singapore.....	2	2	3	3	10	4	20	18	17	22
South Korea.....	6	4	8	20	33	65	93	121	167	213
Taiwan.....	4	3	6	13	5	10	17	22	22	27
Thailand.....	0	0	1	2	1	1	2	0	1	2
All others.....	0	0	0	0	0	1	0	0	2	0
All others.....	1,301	1,373	1,613	1,561	1,620	1,548	1,482	1,538	1,559	1,701
	Percent distribution									
All regions/countries/economies	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
United States.....	34.14	33.24	32.19	32.82	32.85	34.09	34.16	35.32	34.28	34.46
EU.....	36.93	36.78	35.07	33.65	32.03	30.50	30.65	31.61	32.13	33.66

Triadic patent families for selected regions/countries/economies: 1985–94

Region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Austria	0.70	0.64	0.64	0.68	0.60	0.52	0.58	0.49	0.56	0.65
Belgium	0.72	0.71	0.67	0.62	0.74	0.68	0.80	0.98	1.07	1.08
Bulgaria	0.03	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.00
Czech Republic	0.03	0.03	0.02	0.04	0.03	0.02	0.03	0.02	0.02	0.01
Denmark	0.35	0.38	0.36	0.37	0.35	0.39	0.35	0.45	0.52	0.55
Finland	0.24	0.37	0.38	0.37	0.39	0.46	0.54	0.75	0.79	1.06
France.....	6.50	6.31	6.22	5.95	5.82	5.86	5.95	5.50	5.53	5.82
Germany	15.78	15.66	15.13	14.52	13.38	12.56	12.28	12.90	13.04	13.54
Greece	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01
Hungary	0.20	0.13	0.14	0.07	0.14	0.09	0.07	0.06	0.08	0.06
Ireland.....	0.08	0.07	0.08	0.06	0.07	0.08	0.09	0.08	0.06	0.09
Italy.....	2.23	2.25	2.09	2.06	1.98	1.97	2.21	1.93	2.05	1.93
Luxembourg.....	0.07	0.07	0.01	0.02	0.02	0.05	0.03	0.03	0.05	0.02
Netherlands.....	2.42	2.51	2.53	2.26	2.13	1.80	1.90	2.04	1.94	2.01
Poland.....	0.01	0.01	0.02	0.02	0.01	0.02	0.03	0.02	0.04	0.01
Portugal	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Romania.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Slovenia.....	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.01
Spain	0.15	0.15	0.17	0.16	0.21	0.22	0.24	0.22	0.24	0.26
Sweden.....	1.86	1.74	1.38	1.21	1.35	1.32	1.30	1.72	1.63	1.96
United Kingdom.....	5.56	5.71	5.18	5.21	4.80	4.44	4.18	4.35	4.44	4.55
All others.....	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.01
Asia.....	23.25	24.38	27.02	28.45	30.24	30.69	30.25	27.95	28.51	26.60
China	0.17	0.07	0.08	0.05	0.06	0.07	0.09	0.09	0.11	0.10
India.....	0.02	0.02	0.02	0.04	0.02	0.04	0.03	0.02	0.03	0.02
Japan.....	23.01	24.26	26.85	28.23	30.00	30.33	29.67	27.29	27.68	25.66
Malaysia	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.01	0.00
Philippines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Singapore.....	0.01	0.01	0.01	0.01	0.03	0.01	0.07	0.06	0.05	0.07
South Korea	0.02	0.02	0.03	0.06	0.10	0.20	0.31	0.40	0.54	0.66
Taiwan	0.02	0.01	0.02	0.04	0.02	0.03	0.06	0.07	0.07	0.08
Thailand.....	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01
All others.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
All others.....	5.68	5.59	5.73	5.09	4.88	4.72	4.94	5.12	5.08	5.28

EU = European Union

NOTES: Patent families assigned to region/country/economy based on residence of inventor. Year of patent is first date of filing patent application. Patents on fractional-count basis. For patents with inventors from multiple countries, each country receives fractional credit based on proportion of its participating inventors. Number of patents estimated between 1998 and 2003 by Organisation for Economic Co-operation and Development (OECD). Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong.

SOURCE: OECD, Patent database, http://stats.oecd.org/wbos/default.aspx?DatasetCode=PATS_IPC, accessed 15 February 2007.

Triadic patent families for selected regions/countries/economies: 1995–2003

Region/country/economy	1995	1996	1997	1998	1999	2000	2001	2002	2003
	Number								
All regions/countries/economies	35,406	38,690	40,909	42,704	46,674	50,265	50,821	51,862	53,585
United States.....	12,100	12,921	14,008	14,945	16,300	17,440	18,097	18,907	19,701
EU	11,565	12,810	13,221	13,831	14,975	16,048	16,168	15,984	16,103
Austria	220	213	251	264	272	290	296	260	288
Belgium.....	372	352	415	418	422	431	450	447	471
Bulgaria.....	3	1	3	0	0	0	0	0	0
Czech Republic.....	3	10	10	14	12	11	13	12	14
Denmark.....	189	220	209	220	232	243	229	216	211
Finland.....	312	353	441	457	495	539	581	607	635
France.....	1,907	2,121	2,167	2,266	2,295	2,365	2,360	2,344	2,379
Germany.....	4,823	5,464	5,562	5,905	6,387	7,142	7,274	7,242	7,248
Greece.....	1	13	10	8	11	6	5	7	10
Hungary.....	25	25	32	14	35	34	23	21	22
Ireland.....	30	29	34	32	56	57	62	63	62
Italy.....	610	688	724	726	775	801	824	814	816
Luxembourg.....	13	15	16	18	19	18	22	19	18
Netherlands.....	727	787	810	803	875	913	916	951	1,017
Poland.....	5	10	9	4	8	10	8	11	11
Portugal.....	3	3	7	4	5	8	8	5	8
Romania.....	2	2	2	2	2	1	3	2	2
Slovenia.....	7	5	4	0	0	0	0	0	0
Spain.....	88	87	107	113	114	122	122	115	119
Sweden.....	701	795	848	911	961	949	881	818	794
United Kingdom.....	1,520	1,608	1,552	1,643	1,990	2,095	2,082	2,022	1,973
All others.....	4	6	8	8	9	13	6	5	6
Asia.....	9,923	10,961	11,435	11,641	12,857	14,065	13,812	14,193	14,912
China.....	42	38	51	63	92	123	161	183	225
India.....	11	15	23	27	32	56	74	86	99
Japan.....	9,487	10,490	10,891	10,952	12,059	13,086	12,751	12,996	13,557
Malaysia.....	4	5	3	0	0	0	0	0	0
Philippines.....	0	0	1	0	0	0	0	0	0
Singapore.....	26	34	29	45	68	79	85	81	84
South Korea.....	327	325	386	463	526	644	650	750	839
Taiwan.....	25	50	49	92	80	77	92	98	108
Thailand.....	2	3	4	0	0	0	0	0	0
All others.....	0	1	2	0	0	0	0	0	0
All others.....	1,817	1,998	2,244	2,286	2,541	2,711	2,744	2,778	2,869
	Percent distribution								
All regions/countries/economies	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
United States.....	34.18	33.40	34.24	35.00	34.92	34.70	35.61	36.46	36.77
EU	32.67	33.11	32.32	32.39	32.09	31.93	31.81	30.82	30.05

Triadic patent families for selected regions/countries/economies: 1995–2003

Region/country/economy	1995	1996	1997	1998	1999	2000	2001	2002	2003
Austria	0.62	0.55	0.61	0.62	0.58	0.58	0.58	0.50	0.54
Belgium	1.05	0.91	1.01	0.98	0.90	0.86	0.89	0.86	0.88
Bulgaria	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Czech Republic	0.01	0.03	0.03	0.03	0.02	0.02	0.03	0.02	0.03
Denmark	0.53	0.57	0.51	0.51	0.50	0.48	0.45	0.42	0.39
Finland	0.88	0.91	1.08	1.07	1.06	1.07	1.14	1.17	1.19
France	5.39	5.48	5.30	5.31	4.92	4.70	4.64	4.52	4.44
Germany	13.62	14.12	13.60	13.83	13.68	14.21	14.31	13.96	13.53
Greece	0.00	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.02
Hungary	0.07	0.06	0.08	0.03	0.07	0.07	0.04	0.04	0.04
Ireland	0.09	0.07	0.08	0.07	0.12	0.11	0.12	0.12	0.11
Italy	1.72	1.78	1.77	1.70	1.66	1.59	1.62	1.57	1.52
Luxembourg	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03
Netherlands	2.05	2.03	1.98	1.88	1.87	1.82	1.80	1.83	1.90
Poland	0.01	0.03	0.02	0.01	0.02	0.02	0.02	0.02	0.02
Portugal	0.01	0.01	0.02	0.01	0.01	0.02	0.02	0.01	0.01
Romania	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.00	0.00
Slovenia	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Spain	0.25	0.23	0.26	0.26	0.24	0.24	0.24	0.22	0.22
Sweden	1.98	2.06	2.07	2.13	2.06	1.89	1.73	1.58	1.48
United Kingdom	4.29	4.16	3.79	3.85	4.26	4.17	4.10	3.90	3.68
All others	0.01	0.02	0.02	0.02	0.02	0.03	0.01	0.01	0.01
Asia	28.03	28.33	27.95	27.26	27.55	27.98	27.18	27.37	27.83
China	0.12	0.10	0.12	0.15	0.20	0.24	0.32	0.35	0.42
India	0.03	0.04	0.06	0.06	0.07	0.11	0.15	0.17	0.19
Japan	26.80	27.11	26.62	25.65	25.84	26.03	25.09	25.06	25.30
Malaysia	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Philippines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Singapore	0.07	0.09	0.07	0.11	0.14	0.16	0.17	0.16	0.16
South Korea	0.92	0.84	0.94	1.08	1.13	1.28	1.28	1.45	1.57
Taiwan	0.07	0.13	0.12	0.22	0.17	0.15	0.18	0.19	0.20
Thailand	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
All others	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
All others	5.13	5.16	5.49	5.35	5.44	5.39	5.40	5.36	5.35

EU = European Union

NOTES: Patent families assigned to region/country/economy based on residence of inventor. Year of patent is first date of filing patent application. Patents on fractional-count basis. For patents with inventors from multiple countries, each country receives fractional credit based on proportion of its participating inventors. Number of patents estimated between 1998 and 2003 by Organisation for Economic Co-operation and Development (OECD). Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand. China includes Hong Kong.

SOURCE: OECD, Patent database, http://stats.oecd.org/wbos/default.aspx?DatasetCode=PATS_IPC, accessed 15 February 2007.

Appendix table 6-52

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Firms and employment in U.S. high-technology small businesses, by industry: 2004

Industry	Firms		Employment	
	Number	Share all firms (%)	Employees (thousands)	Share total employment (%)
All industries.....	481,512	100.0	5,045.3	100.0
Services	413,644	85.9	3,374.4	66.9
Architectural, engineering, and related services.....	96,213	20.0	859.0	17.0
Computer systems design and related services	94,177	19.6	589.7	11.7
Data processing, hosting, and related services	7,488	1.6	112.8	2.2
Electronic and precision equipment repair and maintenance.....	12,067	2.5	79.3	1.6
Facilities support services	1,547	0.3	41.6	0.8
Internet publishing and broadcasting.....	1,810	0.4	16.4	0.3
Internet service providers and web search portals	4,764	1.0	36.3	0.7
Management of companies and enterprises	19,827	4.1	342.6	6.8
Management, scientific, and technical consulting services	120,645	25.1	548.2	10.9
Other pipeline transportation	39	0.0	0.8	0.0
Other telecommunications.....	401	0.1	4.5	0.1
Pipeline transportation of crude oil	31	0.0	0.6	0.0
Pipeline transportation of natural gas	98	0.0	1.8	0.0
Professional and commercial equipment and supplies merchant wholesalers.....	27,481	5.7	318.3	6.3
Satellite telecommunications.....	462	0.1	7.1	0.1
Scientific research and development services	11,952	2.5	186.3	3.7
Securities and commodity exchanges.....	93	0.0	1.8	0.0
Software publishers.....	6,392	1.3	121.8	2.4
Telecommunications resellers.....	2,411	0.5	24.8	0.5
Wired telecommunications carriers.....	2,689	0.6	53.8	1.1
Wireless telecommunications carriers (except satellite)	3,057	0.6	26.8	0.5
Manufacturing	59,717	12.4	1,553.3	30.8
Aerospace product and parts manufacturing.....	1,154	0.2	34.8	0.7
Audio and video equipment manufacturing	504	0.1	11.4	0.2
Basic chemical manufacturing.....	1,041	0.2	35.6	0.7
Boiler, tank, and shipping container manufacturing.....	1,209	0.3	39.5	0.8
Commercial and service industry machinery manufacturing	2,074	0.4	50.6	1.0
Communications equipment manufacturing.....	1,596	0.3	52.8	1.1
Computer and peripheral equipment manufacturing	1,326	0.3	28.8	0.6
Electrical equipment manufacturing	1,976	0.4	50.6	1.0
Engine, turbine, and power transmission equipment manufacturing.....	677	0.1	21.5	0.4
Industrial machinery manufacturing	3,693	0.8	87.3	1.7
Manufacturing and reproducing magnetic and optical media	816	0.2	15.1	0.3
Metalworking machinery manufacturing.....	8,085	1.7	143.3	2.8
Motor vehicle body and trailer manufacturing	1,870	0.4	60.3	1.2
Motor vehicle manufacturing	270	0.1	6.2	0.1
Motor vehicle parts manufacturing	4,205	0.9	160.7	3.2
Navigational, measuring, electromedical, and control instruments manufacturing.....	4,291	0.9	103.7	2.1
Other chemical product and preparation manufacturing	2,061	0.4	45.1	0.9
Other electrical equipment and component manufacturing	1,805	0.4	58.1	1.2
Other fabricated metal product manufacturing.....	5,656	1.2	126.9	2.5
Other general purpose machinery manufacturing	5,459	1.1	130.1	2.6
Other transportation equipment manufacturing.....	796	0.2	16.0	0.3
Paint, coating, and adhesive manufacturing	1,458	0.3	31.7	0.6
Pesticide, fertilizer, and other agricultural chemical manufacturing	617	0.1	11.8	0.2
Petroleum and coal products manufacturing	1,005	0.2	23.9	0.5
Pharmaceutical and medicine manufacturing	1,291	0.3	48.0	1.0
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing.....	607	0.1	23.1	0.5
Semiconductor and other electronic component manufacturing.....	4,175	0.9	136.3	2.7

Appendix table 6-52

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Firms and employment in U.S. high-technology small businesses, by industry: 2004

Industry	Firms		Employment	
	Number	Share all firms (%)	Employees (thousands)	Share total employment (%)
Other	8,151	1.7	117.6	2.3
Electric power generation, transmission and distribution	1,501	0.3	73.1	1.4
Oil and gas extraction	6,195	1.3	42.1	0.8
Timber tract operations	455	0.1	2.4	0.1

NOTES: Small businesses are firms with <500 employees. Firms include those reporting no employees on their payroll. Firm is an entity that is either in a single location with no subsidiaries or branches or is topmost parent of a group of subsidiaries or branches. High-technology industries defined by Bureau of Labor Statistics on basis of employment intensity of technology-oriented occupations. Other consists of agriculture, mining, and utilities.

SOURCES: Census Bureau, Statistics of U.S. Businesses, <http://www.census.gov/csd/susb/susb.htm>; and Hecker DE. 2006. High-technology employment: A NAICS-based update. *Monthly Labor Review* 128(7):57–72, <http://www.bls.gov/opub/mlr/2005/07/art6full.pdf>, accessed 19 September 2007.

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Appendix table 6-53

U.S. high-technology small business formation, by technology areas: 1991–2004

Technology area	1991–93	1994–96	1997–99	2000–02	2003–04
All formations	3,122	4,176	3,862	2,197	1,136
Factory automation.....	241	187	125	141	175
Biotechnology.....	151	138	148	133	69
Chemicals	68	48	23	23	12
Computer hardware.....	305	301	201	159	112
Defense.....	20	14	10	6	14
Energy.....	106	85	65	65	70
Environmental	121	101	51	32	14
Manufacturing equipment.....	171	177	115	82	109
Advanced materials.....	134	86	58	32	76
Medical	195	162	136	85	54
Pharmaceuticals.....	66	79	90	67	26
Photonics	85	63	58	44	41
Computer software.....	608	789	980	569	117
Subassemblies and components.....	222	177	111	102	105
Testing and measurement	93	67	46	51	30
Telecom/Internet.....	486	1,674	1,619	590	71
Transportation	50	28	26	16	41

NOTES: Small businesses are firms with <500 employees. Firms are partnerships or private or publicly owned companies that are not units of other companies or partnerships. Technology areas defined by Corporate Technology Information Services, Inc. (Corptech).

SOURCE: Corptech, <http://www.corptech.com/index.php>, special tabulations (15 June 2007).

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Appendix table 6-54

Investment, number of businesses, investors, and employment for angel investment: 2001–06

Year	Investment (\$billions)	Businesses receiving investment (number)	Angel investors (number)	Total employment (number)	Employment/business	Average investment/business (\$)
2001.....	30.0	NA	NA	NA	NA	NA
2002.....	15.7	36,000	200,000	NA	NA	436,111
2003.....	18.1	42,000	220,000	NA	NA	430,952
2004.....	22.5	48,000	225,000	141,200	2.9	468,750
2005.....	23.1	49,500	227,000	198,000	4.0	466,667
2006.....	25.6	51,000	234,000	201,400	3.9	501,961

NA = not available

NOTE: Business includes anything from an entrepreneur with an idea to a legally established operating company.

SOURCE: Center for Venture Research, University of New Hampshire, <http://wsbe2.unh.edu/center-venture-research>.

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Appendix table 6-55

U.S. venture capital investment, by industry and Internet-related: 1990–2006

Industry	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Investment (\$millions)																	
All industries.....	2,766	2,241	3,581	3,702	4,133	8,128	11,279	14,903	21,089	54,206	104,983	40,696	21,829	19,684	22,138	22,778	25,922
Biotechnology.....	306	286	575	476	589	833	1,203	1,438	1,595	2,098	4,311	3,412	3,161	3,693	4,273	3,863	4,656
Business/financial	136	97	147	187	172	377	699	819	1,534	5,073	9,246	2,580	870	1,041	980	1,270	1,085
Communications.....	304	254	428	756	714	1,356	1,929	2,578	4,368	12,649	28,438	11,213	5,107	3,559	3,534	3,964	3,675
Computer hardware.....	273	213	218	199	287	520	838	1,051	1,457	5,041	10,330	3,047	1,510	1,121	1,206	1,413	1,443
Computer software.....	517	469	618	465	655	1,174	2,379	3,417	4,529	10,511	24,377	10,342	5,231	4,469	5,253	4,809	5,023
Healthcare related	423	320	692	609	637	1,120	1,345	1,887	2,113	3,021	3,898	2,529	2,224	1,823	2,092	2,604	3,067
Industrial/energy.....	201	210	316	291	286	639	519	793	1,486	1,873	2,725	1,280	744	828	761	912	1,866
Retailing and media.....	358	238	378	571	578	1,761	1,864	2,036	3,135	12,303	17,286	3,533	1,140	1,124	1,463	1,675	2,375
Semiconductor and electronics.....	248	154	209	148	215	348	503	884	872	1,637	4,372	2,760	1,842	2,026	2,576	2,268	2,732
Internet-related (all industries).....	NA	NA	NA	NA	720	1,832	3,892	5,918	11,444	41,715	79,379	25,593	10,723	8,574	8,830	8,574	9,875
Percent distribution																	
All industries.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Biotechnology.....	11.1	12.8	16.1	12.9	14.3	10.2	10.7	9.6	7.6	3.9	4.1	8.4	14.5	18.8	19.3	17.0	18.0
Business/financial	4.9	4.3	4.1	5.1	4.2	4.6	6.2	5.5	7.3	9.4	8.8	6.3	4.0	5.3	4.4	5.6	4.2
Communications.....	11.0	11.3	12.0	20.4	17.3	16.7	17.1	17.3	20.7	23.3	27.1	27.6	23.4	18.1	16.0	17.4	14.2
Computer hardware.....	9.9	9.5	6.1	5.4	6.9	6.4	7.4	7.1	6.9	9.3	9.8	7.5	6.9	5.7	5.4	6.2	5.6
Computer software.....	18.7	20.9	17.3	12.6	15.8	14.4	21.1	22.9	21.5	19.4	23.2	25.4	24.0	22.7	23.7	21.1	19.4
Healthcare related	15.3	14.3	19.3	16.5	15.4	13.8	11.9	12.7	10.0	5.6	3.7	6.2	10.2	9.3	9.4	11.4	11.8
Industrial/energy.....	7.3	9.4	8.8	7.9	6.9	7.9	4.6	5.3	7.1	3.5	2.6	3.1	3.4	4.2	3.4	4.0	7.2
Retailing and media.....	12.9	10.6	10.6	15.4	14.0	21.7	16.5	13.7	14.9	22.7	16.5	8.7	5.2	5.7	6.6	7.4	9.2
Semiconductor and electronics.....	9.0	6.9	5.8	4.0	5.2	4.3	4.5	5.9	4.1	3.0	4.2	6.8	8.4	10.3	11.6	10.0	10.5
Internet-related (all industries).....	NA	NA	NA	NA	17.4	22.5	34.5	39.7	54.3	77.0	75.6	62.9	49.1	43.6	39.9	37.6	38.1

NA = not available

SOURCE: Thomson Financial, National Venture Capital Association Yearbook 2007 (2007).

Appendix table 6-56

U.S. venture capital investment, by number of businesses and financing stage: 1990–2006

Stage	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Number																
Businesses	1,045	910	1,025	916	962	1,545	2,078	2,536	2,973	4,410	6,340	3,787	2,619	2,416	2,574	2,646	2,910
	Investment (\$millions)																
All stages.....	2,765	2,241	3,581	3,699	4,133	8,127	11,279	14,903	21,099	54,206	104,983	40,697	21,830	19,685	22,138	22,779	25,923
Seed/startup.....	392	237	551	638	781	1,297	1,287	1,316	1,769	3,254	3,119	722	297	338	412	795	1,146
Early	706	561	582	644	853	1,770	2,849	3,580	5,549	11,910	25,672	8,708	3,904	3,546	4,032	3,689	3,951
Expansion.....	1,316	1,085	1,849	1,909	1,564	3,794	5,461	7,728	10,554	30,182	59,867	23,088	12,383	10,047	9,261	8,678	11,479
Later	351	358	599	508	935	1,266	1,682	2,279	3,227	8,860	16,325	8,179	5,246	5,754	8,433	9,617	9,347
	Percent distribution																
All stages.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Seed/startup.....	14.2	10.6	15.4	17.2	18.9	16.0	11.4	8.8	8.4	6.0	3.0	1.8	1.4	1.7	1.9	3.5	4.4
Early	25.5	25.0	16.3	17.4	20.6	21.8	25.3	24.0	26.3	22.0	24.5	21.4	17.9	18.0	18.2	16.2	15.2
Expansion.....	47.6	48.4	51.6	51.6	37.8	46.7	48.4	51.9	50.0	55.7	57.0	56.7	56.7	51.0	41.8	38.1	44.3
Later	12.7	16.0	16.7	13.7	22.6	15.6	14.9	15.3	15.3	16.3	15.6	20.1	24.0	29.2	38.1	42.2	36.1

NOTES: Business includes anything from an entrepreneur with an idea to a legally established operating company. Seed/startup includes proof of concept (seed), research, product development, or initial marketing. Early includes financing for activities such as initial expansion, commercial manufacturing, and marketing. Expansion includes major expansion of activities, or to prepare a company expecting to go public within 6–12 months. Later includes acquisition financing and management and leveraged buyout.

SOURCE: Thomson Financial, National Venture Capital Association Yearbook 2007, National Venture Capital Association (2007).

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Appendix table 6-57

U.S. venture capital investment, by top states: 1996–2006

State	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	1996–2006
	Investment (\$millions)											
All states	11,279	14,903	21,088	54,206	104,983	40,696	21,830	19,685	22,138	22,779	25,992	359,579
California.....	4,561	6,062	7,984	23,159	43,197	16,686	9,491	8,563	10,291	10,707	12,468	153,169
Massachusetts	1,079	1,382	1,987	4,857	10,359	4,813	2,520	2,720	2,944	2,505	2,842	38,008
Texas.....	533	860	1,166	3,127	6,106	2,945	1,296	1,226	1,144	1,121	1,387	20,911
New York.....	406	851	1,345	3,534	6,872	2,104	819	670	741	1,079	1,276	19,697
Colorado.....	301	397	801	1,891	4,194	1,249	561	645	438	666	639	11,782
New Jersey	402	425	399	958	3,312	1,511	882	857	997	907	796	11,446
Washington	409	420	748	1,979	2,823	1,145	576	454	836	814	1,024	11,228
Pennsylvania	305	491	556	1,626	2,894	960	458	581	538	474	763	9,646
Virginia.....	453	340	765	1,219	3,311	953	437	388	276	450	390	8,982
Florida.....	412	549	575	1,801	2,620	895	403	309	314	369	305	8,552
Georgia.....	274	359	409	1,157	2,321	932	567	301	528	247	362	7,457
Illinois.....	363	356	389	1,310	2,434	953	305	374	222	295	405	7,406
Maryland.....	137	185	327	645	1,843	997	599	367	575	504	676	6,855
North Carolina	185	265	343	774	1,830	590	551	353	326	425	477	6,119
Connecticut	160	263	373	947	1,499	536	177	234	195	185	247	4,816
Minnesota	173	278	360	641	1,042	479	402	222	350	221	324	4,492
Arizona.....	95	158	210	379	608	197	195	63	70	159	271	2,405
All others.....	1,031	1,262	2,351	4,202	7,718	2,751	1,591	1,358	1,353	1,651	1,340	26,608
	Percent distribution											
All states	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
California.....	40.4	40.7	37.9	42.7	41.1	41.0	43.5	43.5	46.5	47.0	48.0	42.6
Massachusetts	9.6	9.3	9.4	9.0	9.9	11.8	11.5	13.8	13.3	11.0	10.9	10.6
Texas.....	4.7	5.8	5.5	5.8	5.8	7.2	5.9	6.2	5.2	4.9	5.3	5.8
New York.....	3.6	5.7	6.4	6.5	6.5	5.2	3.8	3.4	3.3	4.7	4.9	5.5
Colorado.....	2.7	2.7	3.8	3.5	4.0	3.1	2.6	3.3	2.0	2.9	2.5	3.3
New Jersey	3.6	2.9	1.9	1.8	3.2	3.7	4.0	4.4	4.5	4.0	3.1	3.2
Washington	3.6	2.8	3.5	3.7	2.7	2.8	2.6	2.3	3.8	3.6	3.9	3.1
Pennsylvania	2.7	3.3	2.6	3.0	2.8	2.4	2.1	3.0	2.4	2.1	2.9	2.7
Virginia.....	4.0	2.3	3.6	2.2	3.2	2.3	2.0	2.0	1.2	2.0	1.5	2.5
Florida.....	3.7	3.7	2.7	3.3	2.5	2.2	1.8	1.6	1.4	1.6	1.2	2.4
Georgia.....	2.4	2.4	1.9	2.1	2.2	2.3	2.6	1.5	2.4	1.1	1.4	2.1
Illinois.....	3.2	2.4	1.8	2.4	2.3	2.3	1.4	1.9	1.0	1.3	1.6	2.1
Maryland.....	1.2	1.2	1.6	1.2	1.8	2.4	2.7	1.9	2.6	2.2	2.6	1.9
North Carolina	1.6	1.8	1.6	1.4	1.7	1.4	2.5	1.8	1.5	1.9	1.8	1.7
Connecticut	1.4	1.8	1.8	1.7	1.4	1.3	0.8	1.2	0.9	0.8	1.0	1.3
Minnesota	1.5	1.9	1.7	1.2	1.0	1.2	1.8	1.1	1.6	1.0	1.2	1.2
Arizona.....	0.8	1.1	1.0	0.7	0.6	0.5	0.9	0.3	0.3	0.7	1.0	0.7
All others.....	9.1	8.5	11.1	7.8	7.4	6.8	7.3	6.9	6.1	7.2	5.2	7.4

NOTE: States ranked by 1996–2006 investment.

SOURCE: Thomson Financial, National Venture Capital Association Yearbook 2007, National Venture Capital Association (2007).