

DER/WER	SAD	SPKR	SI decoding	
06	15.5	70.1	61.2	
07	4.9	9.2	54.2	

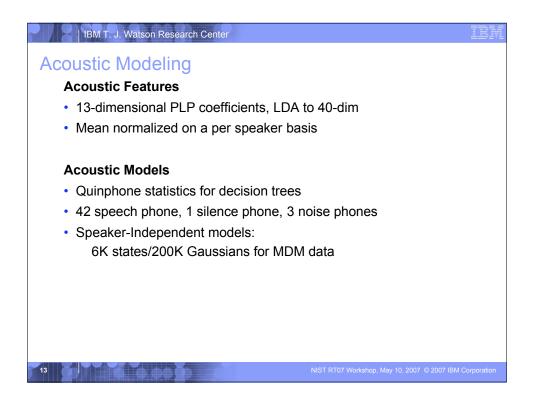
Improver	nent on SF	YKR (co	ont.)		
	WER	Ref seg	Auto seg (07)	Auto seg (06)	
	SI	54.1	54.2	61.2	
	MPE	45.8	46.0	50.6	
	MLLR-MPE	43.5	44.1		
Coi	mparison of ref S	PKR and a	auto SPKR o	n STT decodir	ng

data	SPKR DER	7 release STT WER	SASTT	1
Dev (MDM)	9.2	41.9	44.1	
Eval (MDM)	27.6	44.3	52.0	
Eval (SDM)	27.4	47.9	55.4	
	27.4			
	SASTT 7 degrades so	much		

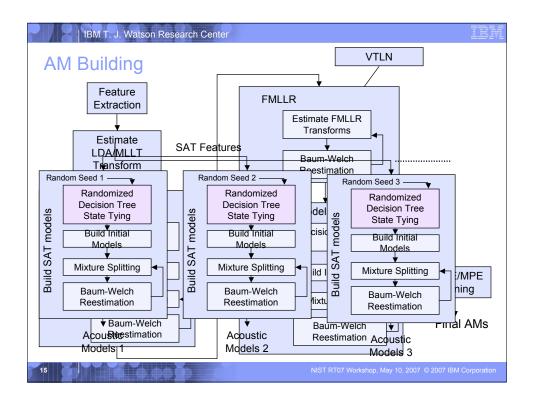
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Language Modeling	
 CHIL meeting transcripts; other meeting transcripts; conference proceedings; Fisher data; 525M web data. 	
 Interpolate 5 ngrams and prune to 5M ngram for static decoding graph. 	
 Prune only the web data LM and interpolate 5 ngram to obtain the final 152M ngram for a dynamic decoder.)
Lexicon	
 37K words (word list from 5 text resources to have the best coverage on dev data) 	
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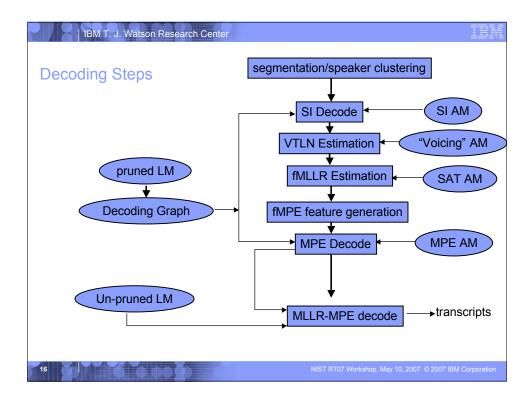
ТВІ	M T. J. Watson Res	earch Center				TBM
Old/Ne	w LM con	npariso	n			
on	ur last year's L 4 text resourd b data					
	Data	dev data	dev data	CHIL07 eval	CHIL07 eval	
	LM	06	07	06	07	
	perplexity	143.4	147.6	121.6	115.7	
	oov rate	1.4	0.4	1.4	1.1	
11		to ex		NIST RT07 W	/orkshop, May 10, 20	07 © 2007 IBM Corporation

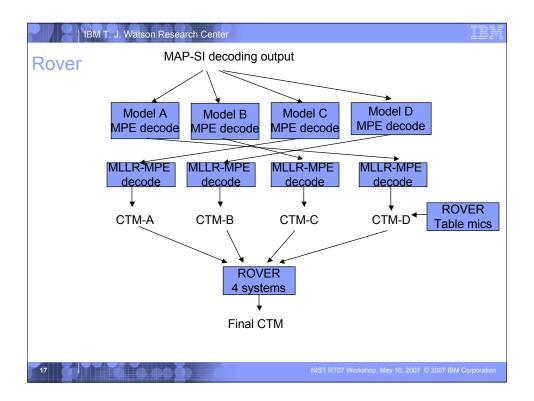
WER	LM(06)	LM(07)	LM(07)	
			huge	
SI	55.2	54.2		
MLLR-MPE		46.7	43.5	
 n of 06/07 LMs: d				of doubleto



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system	Model A	Model B	Model C	Model D
MAP-SI	54.2	54.2	54.2	54.2
MAP-MPE	46.3	46.0	47.3	46.3
MLLR-MPE	42.9	43.4	43.3	43.0
Final rover	41.9			

system	Model A	Model B	Model C	Model D
MAP-SI	55.5	55.5	55.5	55.5
MAP-MPE	48.9	48.6	48.6	48.9
MLLR-MPE	46.1	46.3	46.0	46.0
Final rover	44.3			

Overlap factor	1	2	3	
Final rover with empty hyp	44.3	48.3	50.0	
Final rover with no empty hyp	45.0	48.7	50.3	

system	Model A	Model B	Model C	Model D
MAP-SI	58.6	58.6	58.6	58.6
MAP-MPE	53.7	53.1	53.2	53.4
MLLR-MPE	50.7	50.9	51.1	51.0
Final rover	47.9			

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F	Results on IHM e	val07 data (5/7	release)	
	Decoding Steps	Ref seg	Auto seg (SRI/ICSI)	
	MAP-SI	43.2	44.1	
	MAP-MPE	33.4	34.6	
	MLLR-MPE	31.7	33.4	
	 IHM AMs are the same No multiple systems fo 	-		
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