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Campus Computing News



Wah...wah...wah...Where's the Software?!

By [Dr. Elizabeth Hinkle-Turner](#), Director - Academic Computing Technical Services

Summer of 2013 was an interesting one for the UNT Denton campus. As one of my colleagues put it, the place looks like a child with a box of Legos and severe ADHD had its way on the campus! Construction everywhere! And everything moved to far-flung campus corners (has anyone actually *found* Wells Fargo Bank yet I ask you?) and housed higgledy-piggledy (love that term!) all over the place.

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Web Printing: Welcome to the * NEW * way of Printing at UNT



By [Judy Hunter](#), Director of Front End Support, Helpdesk and Student Computing Center Willis Library, Willis 24hr General Access Computer Lab

The UNT General Access Lab System is very excited to announce the availability of "Web Printing" or "Print from Anywhere" services in a number of the Labs across campus. You can now use Printing.unt.edu to upload and print document from personal devices to supported printers on campus!

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Coming to a Classroom Near You ...



By [Dr. Philip Baczewski](#), Senior Director of Academic Computing and User Services and Deputy Chief Information Officer for University Information Technology

[University Information Technology](#) (UIT) and [CLEAR](#) are happy to announce the availability of an enterprise license for [Panopto](#) lecture capture. The Panopto recorder is now installed by default in all general classrooms and lab classrooms supported by [Classroom Support Services](#).

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By the Numbers

Down the Corridor of Years

1995

- IBM 9672-R51 was installed as a shared academic and administrative system. The R51 was a new IBM CMOS technology mainframe rated at about 58 MIPS. This provided a 60% increase in administrative capacity.

1996

- Academic Solbourne Unix system was upgraded to SUN E-500 (Ultra Enterprise 5000) with one Gigabyte of memory. This was about a factor of four increase in processing capacity.
- The Academic Jove Unix system was upgraded to a Sun SPARCserver 100-E with four 85 Mhz processors and 512 megabytes of memory. This about doubled its processing capacity.
- UNT joins the Trans-Texas Videoconference Network.
- ACS provides an e-mail client program, named Simeon, for access to student e-mail services.
- UNT drafts an "Appropriate use Policy" for computing.
- UNT changes its Internet connection from the UT System-supported THENet to a service provided by the Texas Department of Information Resources (DIR).
- The BITNET network is decommissioned.

EDUCAUSE Annual Conference 2013



By [Claudia Lynch](#), *Benchmarks Online* Editor

The 2013 EDUCAUSE Annual Conference is coming next month. The conference website states, "The EDUCAUSE Annual Conference program is derived from member-driven content organized across six overarching IT domains and 18 subject themes. Participants can take part in person in Anaheim, California or virtually from anywhere. Attend as an individual, or gather a team together and make it a comprehensive experience."

[Read more](#)    

TODAY'S CARTOON

Click on the link above for an information age laugh.



- UNT creates the Distributed Computing Management Support Team (DCSMT) to coordinate the efforts of all central and distributed desktop computer support units on the UNT campus.



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Fortunately, we do have many signs pointing the way to where the bank, the food (I love those green signs that simply say, "**Food.**" on the new "Campus Chat" building! Can't get more basically informative than that!), the mail room etc are. However, I have not seen a sign anywhere that says, "Faculty, staff, and students - here is where your educationally-discounted software is!" I don't think that our new Barnes and Noble tent is going to sully its bright white exterior with big green signs that simply say, "**Book.**" or "**Software.**" (or perhaps "**Green Hoodie.**")! So we at UIT's Academic Computing and User Services in collaboration with several folks on campus are posting as many "virtual" signs as we can about where to get your discounted computing items for all of your work (and play!) needs.

So Where Do Students Get Their Software and Hardware Now?

Microsoft Web Apps?

Questions have been pouring in to me from students, faculty, and staff about their software needs and their confusion. Let me start with my answers to the students about their two most common questions: "What happened to the Microsoft Web Apps that used to be in EagleConnect?" and "Where can I get [insert favorite software application here] for cheap to download onto my computer because it is no longer on the shelf at the bookstore?" Fortunately for me, the Microsoft Web App and EagleConnect question has been answered in [another article](#) in this issue of *Benchmarks Online*. However, let me reiterate that information on getting those Web Apps is found directly on the UIT Helpdesk website at <https://www.unt.edu/helpdesk/skydrive/faq.htm> and if you are still confused you can call the friendly Helpdesk personnel at 940-565-2324.

Discounted software and hardware?

On to the second question (which actually pertains to students, faculty and staff) about where to get discounted software applications for home and school use. The management at Barnes and Noble has instructed us that to get personal IT solutions at educational discounted prices UNT community members need to go to: <http://thinkedu.com>. This site is a partnership with Barnes and Noble and offers many of the same software at the same discounts as one used to be able to purchase off the shelves in the old Union bookstore. You will also notice that by clicking on their hardware tab that they have discounted hardware as well. The site is easy-to-use and you can find what you need in a snap.



On our Student Technology Tour site - <http://it.unt.edu/studenttechtour> - you will see on the page <http://it.unt.edu/hardwaretour> that we have provided links to the education stores of some of the major hardware manufacturers and these sites are where you can get hardware as well. This online solution has always been in place at UNT.

Based on my research for getting Microsoft Office in particular - I recommend the following:

[This is the Office 365 University bundle](#) offered at thinkedu.com. The current price cited is \$119.95 and the product

includes some additional productivity solutions.

- OR -

[This is the Amazon Office 365 University purchase offer.](#)

You will notice that the Amazon price for their Office 365 University is around \$75. The difference appears to be that the Amazon product does not have additional productivity packages and it is a 4-year lease. It does, however, have the main Office apps so if that is all you need, this may be a good solution for you. Please note that both versions of the suite (Amazon's and Barnes and Noble's) require at least Windows 7 on your PC but do not indicate any minimum OS requirement for the Mac.

Answers and Technology Solutions for Faculty and Staff

As noted above, faculty and staff should also use the links I have provided to find educationally-discounted software and hardware for home use. Additionally, the hard-working managers at Barnes and Noble have brought back the inexpensive Microsoft Leasing Program for you. Jean Probst of the bookstore sends the following information:

All software is sold through a leasing program, where the faculty/staff member agrees to remove the software from his/her computer once no longer employed through the university. The software is licensed for one machine at a time, cannot be returned, and the faculty/staff member may only purchase one copy of each version.

- Office Pro Plus 2013 \$16
 - Includes Word, Excel, PowerPoint, Outlook, OneNote, Publisher, Access
 - Requires Windows 7 or 8
- Office Pro Plus 2010 \$16
 - Includes Word, Excel, PowerPoint, Outlook, OneNote, Publisher, Access
- Office Mac 2011 \$14
 - Includes Word, Excel, PowerPoint, Outlook
- Project Pro 2010 \$15
- Visio Pro 2010 \$15
- Win 7 Ultimate Upgrade 32-bit \$21
- Win 7 Ultimate Upgrade 64-bit \$21
- Win 8 Pro Upgrade 32-bit \$21
- Win 8 Pro Upgrade 64-Bit \$21

Additional non-Microsoft licensed software:

- EndNote X7 WIN \$85
- EndNote X7 MAC \$85
- McAfee VirusScan FREE Download*

*McAfee VirusScan is a free download from <http://www.unt.edu/security>. This free download is for all UNT community members.

Need to know if your computer is 32 or 64 Bit? Download the Windows Upgrade Advisor to find out at <http://windows.microsoft.com/en-us/windows/downloads/upgrade-advisor>.

Microsoft Home Use Program?

There is one other item about which we are receiving questions: The Microsoft Home Use Program for UNT Faculty and Staff which has been available at [this location](#). Currently this service is disabled for UNT faculty and staff but ITSS personnel are working on a solution for this and when it is available again you will be able to read it in...you guessed it! *Benchmarks Online!*

More Questions?

In the meantime any questions you have about software and hardware purchase can either be directed to me at ehinkle@unt.edu and/or Jean Probst at the university bookstore at Jean.Probst@unt.edu. For a complete wrap-up of all computing services for the UNT Denton Community please see [this article in last month's Benchmarks issue](#). And if anyone asks you how to find the UNT Denton campus, be sure to tell them just to look for the big green sign that says "**Learning.**"; I am sure it is out there somewhere!

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Web Printing: Welcome to the * NEW * way of Printing at UNT

By [Judy Hunter](#), Director of Front End Support, Helpdesk and Student Computing Center Willis Library, Willis 24hr General Access Computer Lab

The UNT General Access Lab System is very excited to announce the availability of "Web Printing" or "Print from Anywhere" services in a number of the Labs across campus. You can now use [Printing.unt.edu](http://printing.unt.edu) to upload and print document from personal devices to supported printers on campus!

Some areas that currently support the Web Printing are:

- 24hr Student Computing Center in Willis Library- for both Student Funded and Pay2Print printers
- ACUS/Adaptive Lab in Sycamore Hall- For Student Funded printers
- PACS Lab in Chilton Hall- For Student Funded printers

Below are instructions for submitting a print job through the online printing services from any device that has web access:

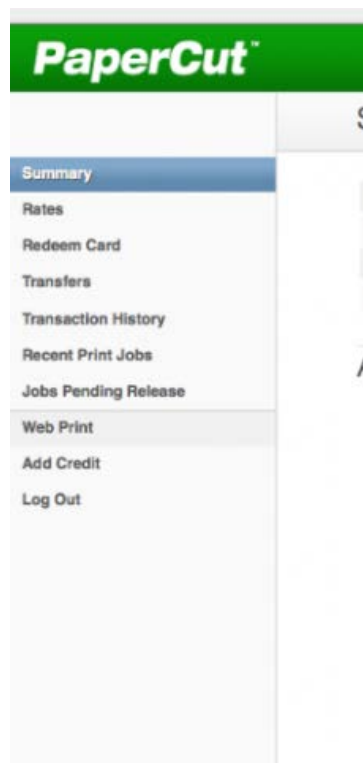
In a web browser, navigate to printing.unt.edu (IE 10 sometimes fails Chrome or Firefox usually work best)



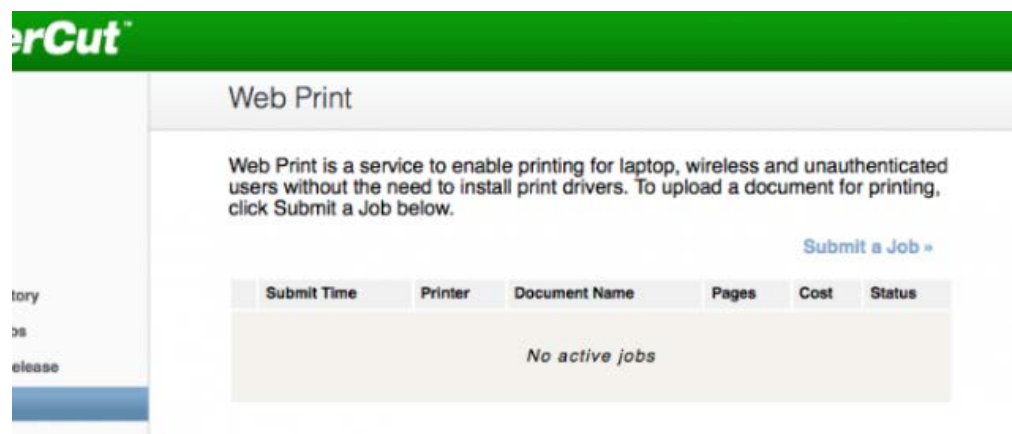
Next, enter your EUID and password. (for Community User, use the account you set up or create an account by clicking on the "don't have a UNT EUID" link under the Login button.)

A screenshot of the login page for the University of North Texas (UNT). The page features the UNT logo at the top, followed by the text 'Please log in using your EUID and password'. Below this, there are three input fields: 'Username' with 'EUID' entered, 'Password' with masked characters '.....', and 'Language' with 'English' selected in a dropdown menu. A 'Log in' button is positioned to the right of the language dropdown. At the bottom of the form, there is a green link that says 'Don't have a UNT EUID?'.

Select "Web Print" from the tabs on the left side of the page.



At the next screen, click on "Submit a Job".



On the following page, select the appropriate printer example:

Willis Library UNT Student Funded printer name: "Willis 1st- StudentFunded (virtual)".

Willis Library Pay2Print printers are for copies/color/ and community users.



The following page lists an option for copies. Unless using a Pay-2-Print printer, multiple copies are not allowed via Web Printing for Student Funded printing. Proceed to the next page.

1. Printer 2. Options **3. Upload**

Select a document to upload and print

/Volumes/SAVEHERE/August

The following file formats are allowed:

Application / File Type	File Extension(s)
Microsoft Office Excel	xlam, xls, xlsb, xlsx, xltm, xltx
Microsoft Office PowerPoint	pot, potm, potx, ppam, pps, ppsm, ppsx, ppt, pptm, pptx
Microsoft Office Word	doc, docm, docx, dot, dotm, dotx
Microsoft XPS	xps
PDF	pdf

Next, make sure your document's file type is accepted by the system as listed in the table and select your document to upload. To select the document click on the 'Browse' button and navigate to where you have saved your document on the device you are using.

NOTE: If the file is not one of the accepted format, converting your document to a pdf would likely be the best course of action. Further for multiple slides per page (powerpoint) please make a pdf first then submit for web printing.

1. Printer 2. Options **3. Upload**

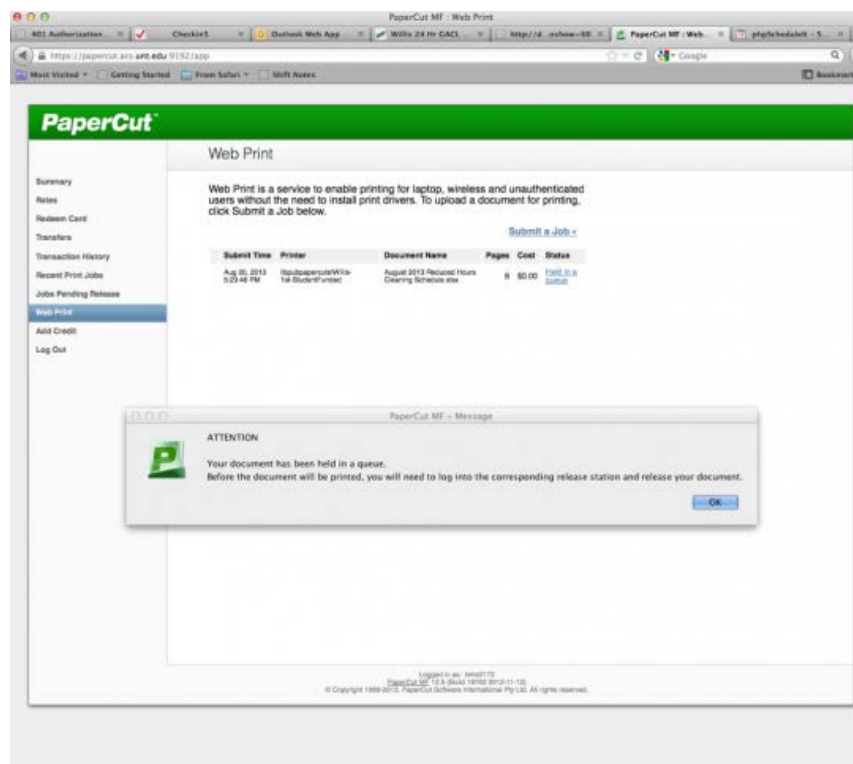
Select a document to upload and print

The following file formats are allowed:

Application / File Type	File Extension(s)
Microsoft Office Excel	xlam, xls, xlsb, xlsx, xltm, xltx
Microsoft Office PowerPoint	pot, potm, potx, ppam, pps, ppsm, ppsx, ppt, pptm, pptx
Microsoft Office Word	doc, docm, docx, dot, dotm, dotx
Microsoft XPS	xps
PDF	pdf

Upload your document by clicking on the button "Upload & Complete" in the bottom right corner of the box.

After the upload is complete, you will receive a message that tells you your document is in a holding queue for the printer/s you selected.



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Network Connection

By [Dr. Philip Baczewski](#), Senior Director of Academic Computing and User Services and Deputy Chief Information Officer for University Information Technology

This Too Shall Pass

Apple's [iOS7](#) for the iPhone was released this week (9/18/2013) and reportedly caused wireless networks to [crash](#) all over. The iPhone has only been in existence for 6 years, but is already at five-plus versions of the hardware and 7 versions of the software. If the iPhone were a person, it would barely be in first grade, yet [reports](#) of lagging orders have have the Apple stock price tumbling and have some already predicting the iPhone's [demise](#).

Et tu, Unix?

Now also comes the recent [news](#) that the Unix operating system may be in its final days (years, actually.) Unix server sales are expected to slip well below a mere \$10 billion by 2017, and the once-mighty [Solaris](#) is an also-ran behind IBM's 56% market share in server revenue. Much of the early Internet software and protocol development was done on Unix systems. For the early years of the Internet, Solaris servers were almost exclusively providing the platform for e-mail, [Gopher](#), [WAIS](#), and World-Wide Web services that spurred the Internet's growth.

What killed Unix? Some would say that [Linux](#) did. Between 2000 and 2010, Unix and Linux switched market place positions, with things like web servers and supercomputers adopting the open source and adaptable alternative in the Nix/Nux marketplace. Also, the proprietary hardware that supported Unix installations became more and more supplanted by the "X86" hardware standard employing Intel and AMD processors that made hardware interchangeable. For a long time, if you wanted to run Solaris, you had to do so on Sun servers and workstations. These days, if you are running Linux, you can change from HP to Dell servers without changing your operating system or applications. And now, with the advent of virtual servers, the operating platform is just a commodity that you can either buy for your own data center or rent from Amazon or other vendors.

No guarantees

It doesn't take long for the IT world to change. There's no guaranty that the iPhone will even make it to puberty. Worldwide, Android has the greatest [share](#) of the smart phone market, even though Apple pretty much was first to market with such a device. However, if they keep providing an innovative product there's the possibility of the iPhone staying ahead of the market and having some distinction within an increasingly commoditized technology segment. Unix floundered because implementations generally required special hardware, were only available at a high price, and failed to offer any new technological advantages over the freely available Linux that would run on a myriad of hardware choices. If you think that a wildly successful idea can't be quickly washed away by an emerging standard, just take out your [BlackBerry](#) and take a look.

All electronic information technology, it seems, will eventually be supplanted until it just becomes a utility like running water or electricity. Although Unix is no longer in the mainstream of information technology, we are still indebted to its [pioneers](#) for many computing concepts, some of which make your smart phone work. Meet me in another six years to see if anyone still has an iPhone. This Two shall pass, but remember that you'll probably be able to use This Three if you have the right hardware.

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SkyDrive and Office Web Apps

SkyDrive and Office Web Apps are a free service offered by Microsoft. Microsoft's Office Web Applications are actually bundled into the SkyDrive account. They are available to everyone -- students, faculty, staff, and anyone else who uses Microsoft products. For more information see:

<https://www.unt.edu/helpdesk/skydrive/faq.htm>



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Helpdesk FYI

By [Jonathan "Mac" Edwards](#), UIT Helpdesk Manager

Office Web Apps and SkyDrive

Over the summer of 2013 the University of North Texas upgraded our EagleConnect Email system to the Office 365 platform. One side effect of this upgrade was that SkyDrive and the free Office Web Apps were moved off of EagleConnect and onto Microsoft's Live.com platform. Fortunately, these services are available for free to everyone. Please see the information below to determine if you already have a Skydrive account or if you need to register for one.

What are SkyDrive and Office Web Apps?

SkyDrive is Microsoft's online cloud storage solution. Much like Dropbox or Google Drive, SkyDrive allows you to store documents online allowing you to access your files from anywhere that has an internet connection. SkyDrive applications are available for your desktop or smart phone, which allows for easy synchronization and the transfer of larger files.

Bundled into the SkyDrive account are Microsoft's Office Web Applications. These include a light version of Word, Excel, PowerPoint, and OneNote. While these versions may be missing a few features present in the desktop version of Office, you will probably find they have everything needed to complete your coursework. Files are saved using standard Office extensions, such as docx, so there will be no compatibility issues when viewing your files with the desktop version of Office. All files are automatically saved in your SkyDrive account so you can access them from anywhere as long as you have an internet connection.

Do I have a SkyDrive and Office Web Apps account?

If you had an EagleConnect account with UNT before the Summer of 2013 your SkyDrive account will still be accessible.

- Go to <https://eagleconnect.unt.edu> and click on the **Sign in to SkyDrive** link.
- You will be prompted to enter your log in name, which will be your EagleConnect account email address.
- If you are unsure of this email address, you can find it at <https://ams.unt.edu> after logging in and selecting "account information."
- Your password is, by default, your UNT password at the time of migration (June 2013). If you do not remember your password, you will need to reset it at the SkyDrive website by clicking on "Can't access your account?". Follow the password reset options to create a new password.
- Your password will be managed through the SkyDrive account and will no longer synchronize with your UNT account.
- Once you sign into your SkyDrive account you will have access to both SkyDrive cloud storage and the free Office Web Apps.

If you did not have an EagleConnect account with UNT before the Summer of 2013 you will need to create a new SkyDrive account.

Go to <https://eagleConnect.unt.edu> and click on the **Sign in to SkyDrive** link.

- You will be redirected to a log in page.
- Select "Don't have a Microsoft account? **Sign up now.**"
- Follow the instructions to create a new Microsoft Account. This account will include not only your SkyDrive and Office Web Apps, but also a Microsoft Email account.
- This account will be supported by Microsoft and is not associated with your UNT username and password.

Upcoming EagleConnect upgrades will restore SkyDrive and Office Web Apps

UNT is waiting to upgrade our current Office 365 implementation to "Wave 15." When this occurs students will once again have access to SkyDrive and Office Web Apps through their EagleConnect accounts. The UIT Helpdesk will provide instructions, at that time, for migrating documents from your personal SkyDrive account to your UNT SkyDrive account.

How do I access the Office Web Apps in my SkyDrive account?

[Please click here for more information on accessing Office Web Apps](#)

Who has access to SkyDrive and Office Web Apps?

Both SkyDrive and Office Web Apps are a free service offered by Microsoft and are therefore available to everyone. If you are a faculty, staff, or student that has not previously had a SkyDrive account through UNT please follow the instructions above for "If you did not have an EagleConnect account..."

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Research and Statistical Support University of North Texas

How to export and merge tables, graphs, and raw data from R to a single Excel file; which has multiple sheets.

Link to the last RSS article here: [How to import and merge many Excel files: each with multiple sheets of data...for statistical analysis.](#) -- Ed.

By [Dr. Jon Starkweather](#), Research and Statistical Support Consultant

Continuing last month's theme, we again visit Excel – back by popular demand. And again, we are obligated to mention that Excel, as nice as it is, is not a statistical software package. RSS personnel do not recommend using Excel; for data storage, data display, or data analysis. An often quoted phrase¹ is the following; the only thing worse than using SPSS, is using Excel. For more information on the known problems with Excel and other spread sheet based software, see Burns (2013). RSS recommends storing data in plain text (.txt) files with comma delimiters; also known as a comma separated values (.csv) file type. The reason RSS recommends text (.txt) or comma separated values (.csv) file types is because those file types can be easily opened or imported into all the statistical software packages. However, if you feel you must use Excel, then this article may help you with the common task of getting tables, graphs, and data from **R** into a single Excel file with one sheet for the table(s) and graph(s), and another sheet for the raw data.

Example

First, import the data. The data used in this example is available on the RSS server and can be accessed using the URL from the script below. Simply copy and paste the script below into an R console to import the data directly into R, naming it ts.df. Notice, the data has 6000 rows of 9 columns (1 time index & 8 time series).

```
ts.df <- read.table(
  "http://www.unt.edu/rss/class/Jon/Benchmarks/ExcelFiles/time_series_001.txt",
  header=TRUE, sep=";", na.strings="NA", dec=".", strip.white=TRUE)
nrow(ts.df)
[1] 6000
ncol(ts.df)
[1] 9
```

Next, set the working directory (setwd) to the location where you want the finished Excel file stored. Here, for this example, we are using the desktop.

```
setwd("C:/Users/jds0282/Desktop/")
```

Next, create an empty table in which some basic descriptive statistics will go. Keep in mind, this table is just being

created for the purpose of having a table to export into Excel. The table will contain the length of each time series, the mean of each time series, the standard deviation of each time series, and the mean fractal dimension of each time series. Fractal dimension can be thought of as a complexity measure of each time series.

```
table.1 <- data.frame(matrix(rep(NA,36), nrow = 4))
names(table.1) <- c("stats",names(ts.df[,2:9]))
table.1[,1] <- factor(c("n","mean","sd","mean.fd"))
```

```
table.1
  stats ts.1 ts.2 ts.3 ts.4 ts.5 ts.6 ts.7 ts.8
1    n  NA  NA  NA  NA  NA  NA  NA  NA
2  mean  NA  NA  NA  NA  NA  NA  NA  NA
3   sd  NA  NA  NA  NA  NA  NA  NA  NA
4 mean.fd  NA  NA  NA  NA  NA  NA  NA  NA
```

Next, calculate the appropriate simple descriptive statistics and store them in the appropriate cells of the table.

```
table.1[1,2:9] <- rep(nrow(ts.df), 8)
table.1[2:3,2:9] <- data.frame(matrix(c(apply(ts.df[,2:9], 2, mean),
                                       apply(ts.df[,2:9], 2, sd)), byrow = T, nrow = 2))
```

```
table.1
  stats   ts.1   ts.2   ts.3   ts.4   ts.5
1    n 6000.000000 6000.000000 6000.000000 6000.000000 6000.000000
2  mean -1.466314  1.647883 -2.080831  1.3697476 -1.226921
3   sd  2.054721  1.487989  1.170512  0.8129809  2.658949
4 mean.fd    NA    NA    NA    NA    NA
      ts.6   ts.7   ts.8
1 6000.000000 6000.000000 6000.000000
2 -2.065006  1.225880 -1.327785
3  1.016617  2.401352  2.265327
4    NA    NA    NA
```

Next, calculate the mean fractal dimension of each time series using a simple for-loop and place the estimates in the appropriate cells of our table. Notice below, there are two necessary packages and it is necessary to specify the window size (*w.s*) in order to calculate multiple fractal dimension estimates (which will be used to calculate a mean fractal dimension for each time series). Also, notice below, each of the mean fractal dimension estimates are close to 2.0; which reflects the random nature of this simulated data. For more information on fractal dimension, see Gneiting, Sevcikova, and Percival (2010).

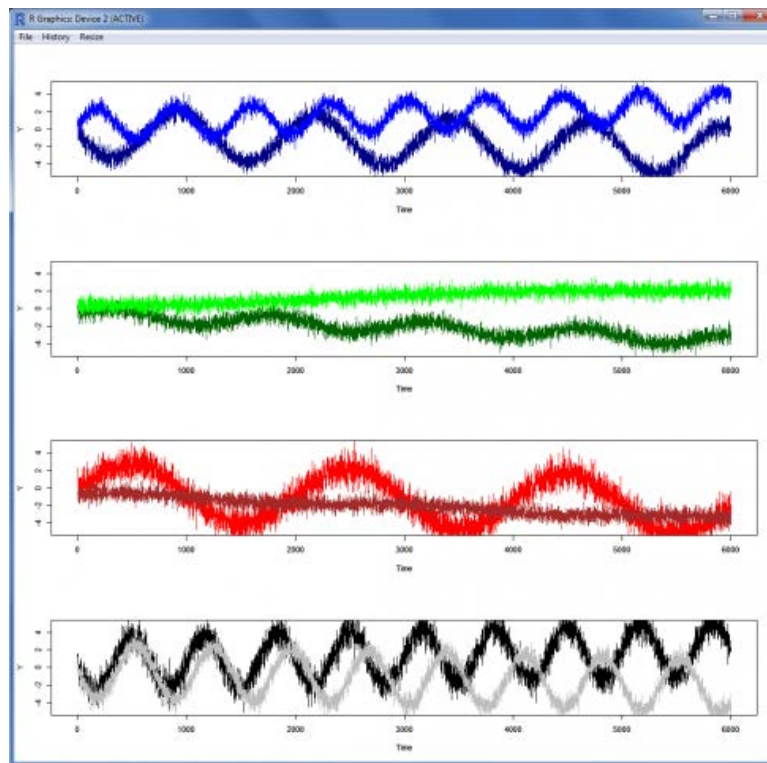
```
library(abind)
library(fractaldim)
w.s <- .1*nrow(ts.df); w.s
[1] 600
for(i in 1:8){
  q <- fd.estimate(data = ts.df[,i+1], methods = "madogram",
                  window.size = w.s, step.size = w.s, trim = TRUE,
                  keep.data = FALSE, keep.loglog = FALSE, parallel = FALSE,
                  nr.nodes = NULL, plot.loglog = FALSE)
  table.1[4,i+1] <- mean(q$fd)
}; rm(i,q,w.s)
detach("package:fractaldim")
detach("package:abind")
```

table.1

	stats	ts.1	ts.2	ts.3	ts.4	ts.5
1	n	6000.000000	6000.000000	6000.000000	6000.000000	6000.000000
2	mean	-1.466314	1.647883	-2.080831	1.3697476	-1.226921
3	sd	2.054721	1.487989	1.170512	0.8129809	2.658949
4	mean.fd	1.979112	1.976728	1.999593	1.9830176	1.978095
	ts.6	ts.7	ts.8			
1	6000.000000	6000.000000	6000.000000			
2	-2.065006	1.225880	-1.327785			
3	1.016617	2.401352	2.265327			
4	1.970747	1.966416	1.988077			

Next, we create a graph; again, the graph is just for the purpose of having a graph to export to Excel. When doing this in R, the graph will not be displayed. Instead, the graph will be written as 'graph1.png' to the location specified as the working directory (from above). The graph file will only be written to that location when the line 'dev.off()' is processed. The graph is displayed after the code segment so that the reader will see what the graph looks like in R prior to seeing it in the finished Excel file.

```
jpeg('graph1.png')
par(mfrow = c(4,1))
plot(ts.df[,1],ts.df[,2], type = "l", col = "darkblue", xlab = "Time",
     ylim = c(-5,5), ylab = "Y")
par(new = T)
plot(ts.df[,1],ts.df[,3], type = "l", col = "blue", xlab = "Time",
     ylim = c(-5,5), ylab = "Y")
plot(ts.df[,1],ts.df[,4], type = "l", col = "darkgreen", xlab = "Time",
     ylim = c(-5,5), ylab = "Y")
par(new = T)
plot(ts.df[,1],ts.df[,5], type = "l", col = "green", xlab = "Time",
     ylim = c(-5,5), ylab = "Y")
plot(ts.df[,1],ts.df[,6], type = "l", col = "red", xlab = "Time",
     ylim = c(-5,5), ylab = "Y")
par(new = T)
plot(ts.df[,1],ts.df[,7], type = "l", col = "brown", xlab = "Time",
     ylim = c(-5,5), ylab = "Y")
plot(ts.df[,1],ts.df[,8], type = "l", col = "black", xlab = "Time",
     ylim = c(-5,5), ylab = "Y")
par(new = T)
plot(ts.df[,1],ts.df[,9], type = "l", col = "grey", xlab = "Time",
     ylim = c(-5,5), ylab = "Y")
dev.off()
```



Next, we work on creating the Excel file by first creating the workbook, then the individual sheets – all within R. Three packages are required to accomplish these tasks; really only one package (xlsx; Dragulescu, 2013) but, it has two dependent packages.

```
library(rJava)
```

```
library(xlsxjars)
```

```
library(xlsx)
```

First, we need to create the workbook, here simply named my.wb, by using the intuitively named createWorkbook function and supplying the Excel format we wish – here xls.

```
my.wb <- createWorkbook(type = "xls")
```

Next, we create two sheets; one for the table and graph, and one for the raw time series data. Again, the function is intuitively named: createSheet, and we supply the workbook in which to create each sheet and the sheet name we desire.

```
sheet.1 <- createSheet(my.wb, sheetName = "time.series.tables.and.graphs")
```

```
sheet.2 <- createSheet(my.wb, sheetName = "time.series.data")
```

Next, we *add* the objects, such as the table, graph, and data, to the two sheets we have created in our workbook. When using the addDataFrame or addPicture functions, it may require some trial and error to place the data frame or picture in the sheet where it is desired. However, creating the file, checking placement, and if necessary, altering the start column and start row arguments to re-write the file is very easy to do. One other key point to keep in mind is the scale argument of the addPicture function. The scale argument can be used to adjust the size of the picture. Scale is set to 1.00 by default (if no scale is specified, no scaling factor is applied).

```
addDataFrame(table.1, sheet = sheet.1, startRow = 3, startColumn = 1)
```

```
my.file <- "C:/Users/jds0282/Desktop/graph1.png"
```

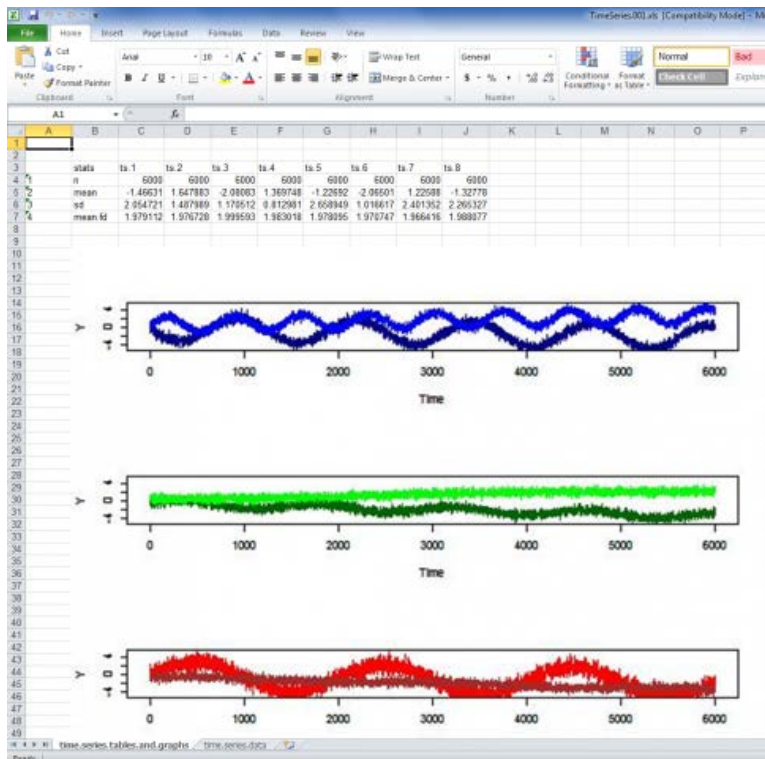
```
addPicture(file = my.file, sheet = sheet.1, scale = 2,
           startRow = 10, startColumn = 2)
```

```
addDataFrame(ts.df, sheet = sheet.2, startRow = 1, startColumn = 1)
```

Lastly, we must *save* the workbook. This is the step which actually creates the Excel file or workbook and sheets within it.

```
saveWorkbook(my.wb, "TimeSeries.001.xls")
```

Then, simply navigate to the working directory set at the beginning (here, the working directory is the desktop). Then open the Excel file and inspect the placement of the table(s) and graph(s). Screen captures of sheet 1 (table and graph) and then sheet 2 (raw data) are below.



	ts.1	ts.2	ts.3	ts.4	ts.5	ts.6	ts.7	ts.8	
1	1	0.931058	0.952631	0.338582	0.407449	-0.64089	-0.51452	1.550986	0.024434
2	2	-0.14773	0.181768	-0.8232	0.015177	-0.58606	-0.80926	0.946796	-0.76777
3	3	-0.74158	-0.02781	-0.86964	0.539513	-1.25416	-1.61478	1.328966	-0.40003
4	4	0.777812	0.70281	-0.81858	1.118583	-1.16344	-0.66263	0.323297	-0.551
5	5	-1.07857	0.484124	-0.98968	0.383404	2.278798	-0.85031	1.537128	-0.74788
6	6	-1.27812	-0.15502	-1.03682	0.144574	0.48589	0.116319	1.031859	-0.15273
7	7	0.82123	0.787586	-0.27533	0.111133	0.968231	-0.86524	0.075666	0.284964
8	8	-0.94889	0.015106	-1.41649	0.544889	1.531330	-0.23101	-0.41475	-0.64899
9	9	-0.5882	0.516118	-0.36991	-0.07289	-0.37968	-0.89289	0.334797	-0.34318
10	10	-0.60547	1.217607	-0.22347	0.148218	-0.05528	-0.67935	-1.33144	-0.26370
11	11	-1.17723	-0.48443	-1.30611	0.356889	-1.48480	-1.71163	0.137888	-0.98231
12	12	-0.62676	0.834668	-1.23174	0.18318	-0.68272	-0.47237	0.05488	-0.67099
13	13	-0.731	-0.2406	-1.7896	1.083312	1.124349	-0.98248	-0.33161	-0.16788
14	14	0.298194	0.783271	-0.76773	0.355783	-0.35478	-0.85912	-0.10494	-0.74556
15	15	-1.13844	-0.12523	-0.17367	0.654576	-1.64815	0.281265	-0.26865	-0.60395
16	16	-0.50775	0.861481	0.475654	0.515686	-1.54826	-1.49477	0.254862	-0.28551
17	17	-0.21967	0.537732	-0.19429	0.638219	-0.94291	0.6303	0.72786	-1.38163
18	18	-0.73035	1.198864	-0.51748	1.064542	-0.88235	-0.72988	-0.28845	-0.25115
19	19	0.608113	0.09338	0.376379	-0.13894	-1.26254	-0.45682	-1.35486	-0.31364
20	20	0.51512	0.874446	0.862596	0.627546	1.98316	-0.89194	-0.62886	-0.22388
21	21	-1.22642	0.059242	-0.51826	1.060359	-0.20703	0.51235	-0.41658	-0.73054
22	22	-0.334	1.20543	0.137176	-0.26539	1.184193	-0.66568	0.536421	-0.18365
23	23	-0.96078	1.65519	-0.38291	0.278886	-0.76195	-1.2465	-0.67899	-0.93988
24	24	-1.21758	-0.84805	-0.22735	0.889984	1.32502	-0.9196	-0.4152	-0.11376
25	25	0.241813	0.389716	-0.13159	1.123294	-1.03383	-0.26018	-0.40347	-1.12169
26	26	-1.37754	1.093766	-1.15536	0.736364	-0.15201	0.82366	0.696136	-1.09861
27	27	-0.71148	1.198162	-0.22689	0.803912	-0.61021	-0.21744	0.548326	-0.97623
28	28	-0.36848	0.738339	0.88846	0.226847	0.523843	-1.08773	-1.08384	-2.6214
29	29	0.812676	1.88848	-1.26136	-0.63643	0.658931	-0.41425	-0.65786	-1.78806
30	30	-1.33949	0.260781	-0.23087	0.256021	-0.49047	-0.35337	0.12657	-1.19369
31	31	0.15145	0.313226	-0.14157	1.159168	0.86151	0.002407	0.045227	-0.46829
32	32	-1.08851	0.08804	-1.84983	1.489823	2.22795	-0.89698	1.002843	-1.64569
33	33	-1.48984	0.799792	-1.13152	-0.34111	1.27444	-0.762	-0.67513	-0.79836
34	34	-1.47243	0.659288	-0.37371	0.890302	0.312775	-0.47452	0.32897	-1.55897
35	35	0.856116	0.827801	-1.41377	0.513188	-0.83975	-0.83276	-1.32619	-1.92151
36	36	-1.35648	0.812955	-0.61296	1.000737	0.474124	0.252041	0.90194	-1.44832
37	37	-0.52572	1.021146	0.916536	0.226916	-0.88785	-1.12518	-1.38853	-1.78805
38	38	-0.80735	1.07412	0.138121	-0.51983	0.989692	-0.704	-1.75531	-2.26864
39	39	-0.32473	1.441877	-1.72998	0.446444	-1.88266	0.277158	-1.26885	-1.22343
40	40	0.80472	1.603389	-0.02124	1.039166	0.663506	-0.42882	-2.1676	-1.62273
41	41	-1.53148	0.452493	-0.76991	0.22648	0.48432	-0.45145	-1.29165	-1.61886
42	42	-0.73877	0.729118	-0.78951	1.456715	-1.31669	-0.85201	-0.9684	-0.18114
43	43	-0.02732	0.149383	-0.12683	-0.86953	-0.31777	-0.9765	-0.2979	0.86058
44	44	-0.82438	1.548958	-0.91889	-0.1343	-0.68918	0.811261	-2.51154	-1.89642
45	45	-0.22812	1.283297	-0.58782	0.727165	2.218807	-0.13664	-2.19337	-1.95351
46	46	-0.9289	1.139616	0.676513	0.23585	-0.91865	-0.20431	-0.76828	-1.28742
47	47	-1.96287	0.654473	0.448167	0.418993	-0.94415	-1.32342	-0.04188	-1.68176
48	48	-0.85321	0.834875	-0.24803	0.891952	-0.46332	-0.30085	-0.33877	-0.58775

Conclusions

Keep in mind, there are a variety of different ways of accomplishing what was accomplished in this article. All of the functions used in this article have optional arguments for more precise control over the objects and their placement in an Excel file being created. The example here was admittedly simple in order to illustrate the general use of functions which can be used to export objects (e.g., tables, graphs, & data) to Excel from R. As stated last month, that is another benefit of using R, the flexibility it affords the analyst in deciding what to do and how to do it. For more information on what R can do, please visit the Research and Statistical Support [Do-It-Yourself Introduction to R](#) course website. Lastly, for those interested in seeing how the example data was created in R; please take a look at the [script](#) which was used. An Adobe.pdf version of this article can be found [here](#).

Until next time; *Ground control to Major Tom...*

Footnote¹: The phrase is believed to have originated with respected statistician and prominent R user Frank Harrell of Vanderbilt University at the 5th annual Bayesian Biostatistics Conference.

References / Resources

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Training

By [Claudia Lynch](#), *Benchmarks Online* Editor

Do you need training on widely used computer programs including those used in statistical analysis? If so, this monthly *Benchmarks Online* column is for you.

Statistical Analysis

Instructor-led courses are offered only by special request. Please contact an [RSS member](#) or [Claudia Lynch](#) if you are interested in taking such a class or wish to have someone offer a class for your students. [SPSS](#), [SAS](#) and [Introduction to R](#) are offered online. Make sure and check out the **RSS Matters** article [Statistical Resources](#) in the July 2012 issue of *Benchmarks Online*.

Special classes can always be arranged with the RSS staff. Also, you can **always** contact the RSS staff for one-on-one [consultation](#). Please read the [FAQ](#) before requesting an appointment though.

Coming up! - Dr. Jon Starkweather, Research and Statistical Support Consultant, will be making a presentation on services offered by RSS at a put on by the College of Education Doctoral Students Association for graduate students and faculty on **September 21**. Check [this website](#) for 2013 conference information. It had not been posting when this article was published.

Especially for Faculty and Staff Members

In addition to the online statistical courses, which are available to students, faculty and staff, staff and faculty members can take courses offered through the [Business Service Center](#) (they have a new comprehensive training curriculum), and the [Center for Learning Enhancement, Assessment, and Redesign](#) (CLEAR). Additionally, the [Center for Achievement and Lifelong Learning](#) (CALL) offers a variety of courses, usually for a small fee.

EIS training is available and expanding. Click [here](#) for online tutorials.

Microsoft IT Academy

All **students, faculty and staff** within the UNT System now have access to online learning via the Microsoft IT Academy. See [this article](#) in the July 2012 issue of *Benchmarks Online* for more information.

Microsoft E-Learning

Microsoft E-Learning courses are available for **faculty and staff** via our UNT-Microsoft Campus Agreement. Please contact Claudia Lynch at lynch@unt.edu for instructions on accessing this training. If you haven't accessed the training since last year you will need to get a new access code. UNT, UNTHSC and UNTSYSTEM e-mail addresses are now able to access Microsoft E-Learning.

Central Web Support

Central Web Support [provides](#) "End-User and Administrative Support for hosted general web sites, and Drupal websites for academic and administrative departments." Visit their [website](#) for "How-Tos about Everything."

CLEAR

CLEAR offers courses especially for Faculty Members. *CLEAR training includes:*

- Blackboard
- Turnitin
- Turning Point
- Assessment
- Teaching Effectiveness
- Respondus

Further information can be found [here](#).

CLEAR Open Labs Scheduled

Date(s): Friday afternoons (August 23 & 30, September 6, 13, 20, 27)

Time: 1-4 p.m.

Location: Chilton 112K (UNT – Denton Campus)

No registration required!

The CLEAR Open Lab was designed to provide faculty with the opportunity to drop in for assistance with Blackboard Learn. The lab is not a formal training session, but rather a block of time during which one or more CLEAR staff members with expertise in Blackboard are on hand to answer questions and provide guidance. Faculty may drop in at any time during the lab and leave as soon as they have had their questions answered. They are encouraged to bring their laptops to make the most of their time in the lab.

For faculty or teaching assistants who are new to Blackboard Learn, we recommend attending a formal training session that provides an overview of the system (<http://clear.unt.edu/training>) or scheduling an appointment with an instructional consultant (<http://clear.unt.edu/go/ic>).

CLEAR Outcome-Based-Assessment Workshops for Fall 2013 (September/October) - CLEAR offers 50 minute workshops by Dr. Ron Carriveau that provide everything you need to develop measurable student learning outcomes and outcome based assessments.

Ed2go

Ed2go are courses that are offered, for a fee, to UNT faculty, staff and students as well as the general public.

According to the CALL [website](#):

CALL has partnered up to provide online learning on a variety of topics. From standardized test preparation to database programming to training for libraries and their staff, there's a variety of areas from which to choose in online learning.

The online minicourses, provided in conjunction with Ed2go, are standardized 12-lesson modules released over a six week period. (Courses are active for eight weeks to provide some flexibility). Each module features a quiz. Lessons are instructor-led and course participants and instructor communicate through a course discussion board. Lessons can be downloaded and saved. At the end of the course there is a final quiz. A passing grade opens a window that allows students to print out a course completion certificate.

Most courses are \$89, and UNT faculty, staff and students may receive a \$10 discount.

For additional information surf over to <http://www.ed2go.com/unt/> Visit the **Ed2go blog** [here](#).

Information Security Awareness

The ITSS Information Security team offers Information Security Awareness training to all UNT faculty and staff.

It is a policy requirement that ALL staff take an information security course at least once a year.

See July's "[Link of the Month](#)" for the latest information about Security Awareness training.

Business Service Center Training & Development

Provides training to UNT System institutions: <http://bsc.untsystem.edu/training-development>. There is also a link to [download Office 2010 training](#) (in PowerPoint 2010 format) on the BSC website.

Alternate Forms of Training

Many of the General Access Labs around campus have tutorials installed on their computers.

See <http://www.gacl.unt.edu/> for a list of labs and their locations. The 24 Center in Willis Library, for example, has a [list of Tutorials and Software Support](#). The Library Instructional Unit also offers workshops and training, including "tech skills" training. Visit their websites for more information: <http://www.library.unt.edu/library-instruction>

The [Training Website](#) also has information about alternate forms of training. Computer Based Training (CBT) and Web-based training are some of the alternatives offered, although due to the rising costs of training, shrinking budgets and changing technology, computer-based training at UNT is in a state of transition. For up-to-date information on CBT at UNT, see the CBT [website](#).

Info~Tech, UNT's IT Research Partner

Info~Tech is UNT's IT research partner. UNT System, UNT, UNT Health Science Center and UNT Dallas employees have access to Info~Tech research at: www.infotech.unt.edu (click on the UNT System name to login). Your standard EUID and Password gains you access to the Info~Tech system. Please take a moment to read their terms and conditions by clicking through the agreement when you set up your profile the first time you log in.

State of Texas Department of Information Resources

Another possible source of training for staff and, perhaps, faculty members is the Texas Department of Information Resources. A look at their Education and Training [website](#) reveals some interesting possibilities.

New Horizons Computer Learning Centers

New Horizons is a DIR vendor, which means that state agencies, like UNT, get special pricing for their services negotiated at the State level (click [here](#) for more information about DIR vendors). [New Horizons](#) offers courses at their own facilities in Dallas and Fort Worth, but will arrange for onsite training as well.

October at New Horizons means it's time for another SpecTECHular event.



If you are an IT Professional, a Developer, or an Executive looking for more information on the latest technologies, don't miss SpecTECHular. It's a full day of free IT and process management seminars held right in your local New Horizons Center. Register today at SpecTECHular.com

Where & When

Thursday, October 10, 2013

8:00 AM - 4:00 PM

New Horizons Computer Learning Center

Dallas, TX | [MAP](#)

Dallas: register today at SpecTECHular.com

Friday, October 11, 2013

8:00 AM - 4:00 PM

New Horizons Computer Learning Center

Fort Worth, TX | [MAP](#)

Ft. Worth: register today at SpecTECHular.com

- <http://www.unt.edu/helpdesk/>. Questions and comments should be directed to benchmarks@unt.edu.



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Staff Activities

Staff activities for [UIT](#) are reported in this column. ITSS staff activities are handled by [ITSS Communications](#).

Transitions

New Employees:

- **Luis Contreras**, CSS Tech, Classroom Support Services (part-time).
- **Nagender Madhyanapu Srinivas**, ACUS/Adaptive Lab consultant (part-time).
- **Julian Maru**, CSS Tech, Classroom Support Services (part-time).
- **Rene Hernandez**, UIT Helpdesk Consultant (part-time).
- **Rui Jing**, ACUS/Adaptive Lab consultant (part-time).
- **Christian Kabela**, UIT Helpdesk Consultant (part-time).
- **Chris Minor**, CSS Tech, Classroom Support Services (part-time).
- **Aishwarya Karumanchi**, ACUS/Adaptive Lab consultant (part-time).
- **Jason Dann**, CSS Tech, Classroom Support Services (part-time).
- **Sharon Huang**, IT Specialist, Web Development (AITS).

No longer working in UIT:

- **Paul Durnin**, CSS Tech, Classroom Support Services (part-time).
- **Longhui Zhang**, ACUS/Adaptive Lab consultant (part-time).
- **Julian Maru**, CSS Tech, Classroom Support Services (part-time).
- **Luis Contreras**, CSS Tech, Classroom Support Services (part-time).
- **Jim Curry Retires from UNT** -- After a long career at UNT, Jim Curry, Director of Classroom Support Services, decided to quietly retire. Jim founded the Microcomputer Maintenance Shop which for many years built PCs for use on the UNT campus, and continues to serve as a maintenance depot for our current Dell and Apple computers. In the mid-1990's, Jim was charged with developing a model to provide a consistent and reliable classroom technology installation for all general UNT classrooms. The result was Classroom Support Services which today supports 296 classrooms in 27 different UNT buildings. Along with his design and installation of standard classrooms, Jim also developed a unique set of programs to monitor and maintain the equipment. We will miss Jim's technical expertise and wry sense of humor, but we wish him well in his new career as a retiree.

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EDUCAUSE Annual Conference 2013

By [Claudia Lynch](#), *Benchmarks Online Editor*

The 2013 EDUCAUSE Annual Conference is coming next month. The conference website states, "The EDUCAUSE Annual Conference program is derived from member-driven content organized across six overarching IT domains and 18 subject themes. Participants can take part in person in Anaheim, California or virtually from anywhere. Attend as an individual, or gather a team together and make it a comprehensive experience."



EDUCAUSE 2013
ANNUAL CONFERENCE

The Best Thinking in Higher Ed IT

Register Now
October 15-18 | Anaheim or Online

Program & Agenda Now Available

Registration is open and [virtual](#) and [face-to-face](#) daily agendas are now live. Can't make it to Anaheim? Register for the virtual conference and view 63 webcasts and 15 exclusive online sessions from anywhere. The Virtual Conference Early-Bird registration deadline is **October 8**.

The 2013 [award recipients](#) — Brad Wheeler, Bill Hogue, Barron Koralesky, and Jennifer Sparrow — will be honored at the annual conference. The General Session speakers are [Sir Ken Robinson](#), Educationalist and Author; [Jane McGonigal](#), Game Designer and Author; and [Paul LeBlanc](#), President, Southern New Hampshire University. Visit the conference website for more information:

<http://www.educause.edu/annual-conference>

A Taste of EDUCAUSE 2013

You can get a taste of this year's conference by looking back at what happened in 2012—watch recordings, explore presentations, and find out why you won't want to miss this year's conference. [View EDUCAUSE 2012](#)

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Today's Cartoon

© Randy Glasbergen / glasbergen.com



“Try to think of each sentence as a tweet sent by a celebrity named William Shakespeare.”

From "Today's Cartoon by Randy Glasbergen", posted with special permission. For many more cartoons, please visit www.glasbergen.com.

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