

# Essentials

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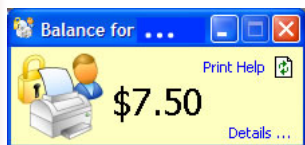
## Understanding Papercut

[Editor's Note: Papercut is the print accounting software that affects students and offices that print to the CSS Color Laser, ptrcss10.]

### Why the Balance Changes

At the beginning of the fall and spring semesters, students are given \$10.00 in the print accounting system Papercut. As each page is printed on the printers (ptrcss00-03) in the Elder and Hering labs, \$.05 is deducted from that amount. Thus after printing 50 one-sided pages, the Papercut balance window would show \$7.50.

(Had you printed 50 duplex pages, the balance would still be \$7.50. Had you needed only 25 pages and printed them in duplex mode, your balance would be \$8.75.) Ten pages on the color laser printer ptrcss10 would deduct another \$2.50, leaving a balance of \$5.25. As long as you are using the initial \$10.00, the amount you see in the Papercut balance window is a positive number.



Once you spend that \$10.00, you automatically begin to use credit printing up to (\$25.00). You know you are credit printing because the Papercut balance is negative, showing a number in () as (\$1.35).

At the end of our monthly billing cycle, if your Papercut balance shows (\$1.00) or less, you will see that amount on your U-Bill and the print balance returns to \$0.00.

### Balance Reduced when Job Queued

Note that the cost of a print job is deducted when the job is queued. If a queued job is deleted from the print queue before it is printed, Papercut adds back the amount that was deducted when the job was queued. See the article "Papercut Details..." for more information.

Print charges to the U-Bill are processed after the 20<sup>th</sup> of each month. If you want pay off your print charges before they are billed, take cash to the Engineering Electronics Shop (EES), 2018 SC, to pay the current balance. EES personnel can look up your print quota so that you can pay the exact amount due.



At the beginning of the spring 2008 semester, students will see that the Papercut balance is reset to \$10.00. If you don't use all of the \$10 allocation, the unused balance is expunged.

### How to Save Money and Paper

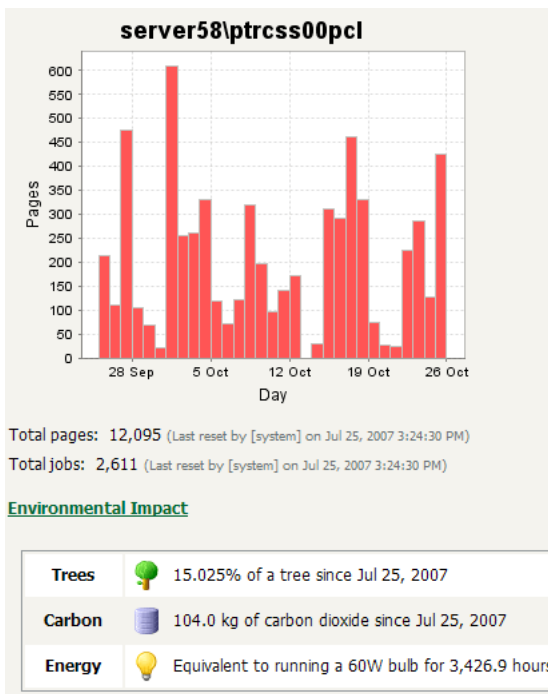
Printing on both sides of a sheet of paper is called duplex printing. CSS has changed the charge for duplex printing. One side of one page costs \$.05. Two sides of one page costs \$.05. You get twice as much printing for the same amount if you use the duplex option. CSS suggests that you stretch the number of pages you can print and save trees by using duplex printing as often as possible.

**Note about duplex printing:** the printer paper handler briefly extrudes the paper to turn it over and print on the other side. Please wait until the pages are in the top output tray before removing them.

### Which Printer to Use

Papercut keeps statistics on how many pages are printed on each printer, as well as information about

the environmental impact of the resources used for printing. As of 25 October, ptrcss03 had printed 41387 pages since Papercut was installed in July; ptrcss02 printed 12076 pages; ptrcss01 printed 45274 pages; and ptrcss00 printed 39820 pages. As of 12 November, ptrcss03 had printed 53969 pages since Papercut was installed in July; ptrcss02 printed 13686 pages; ptrcss01 printed 72817 pages; and ptrcss00 printed 51462 pages. See graph at right for ptrcss00 usage July-October 2007.



Does anyone know why ptrcss02 is used much less than the other printers?

## New Version of Papercut

The Tuesday before Thanksgiving, when there are no classes, CSS installed a new version of Papercut. Users should not see anything different, but the new version includes administrative functions that the CSS staff is eager to use.

## Papercut Details...

The Papercut balance window has a Details... link. When you click on the details link, you can login to a web page that includes information about your printing account. Use this link to check whether Papercut refunded the charge for a cancelled print job. Papercut analyzes a print job when it is queued and charges your account the appropriate amount. If you cancel a job before it is printed, Papercut refunds the charge.



### Scenario

It is a busy day in the Elder lab and you send a 6-page document to ptrcss00. When you get to the printer, you see that someone else is printing something that might be very long. You are in a hurry, so you return to the computer and queue the same 6-page document to ptrcss01. Then you cancel the job that is queued to print on ptrcss00.

### Papercut Possibility 1

Your print balance is \$3.40. You send a 6-page document to ptrcss00 to print on 1-side of each sheet of paper. Papercut shows a balance of \$3.10. You send the same document to ptrcss01. Papercut shows a balance of \$2.80. You cancel the first print job. Papercut shows a balance of \$3.10.

### Papercut Possibility 2

Your print balance is \$3.40. You send a 6-page document to ptrcss00 to print duplex. Papercut shows a balance of \$3.25. You send the same document to ptrcss01, also duplexed. Papercut shows a balance of \$3.10. You cancel the first print job. Papercut shows a balance of \$3.25.

### Papercut Possibility 3

Your print balance is \$3.40. You send a 6-page document to ptrcss00 to print duplex. Papercut shows a bal-

ance of \$3.25. You send the same document to ptrcss01 but forget to set duplex printing. Papercut shows a balance of \$2.95. You cancel the first print job. Papercut shows a balance of \$3.10.

## No Downtime this December

CSS usually has a December downtime. There will be work done over the semester break, but CSS has created a computing environment that allows us to work without shutting down the system.

## Software Listserv

## New Screens in 1245 SC

### Why a Listserv

Usually on weekends CSS installs software, including new applications, updates, and patches. (Sometimes critical operating system patches are available upon reboot during the week.) To let you know about Windows and Linux software that will be installed, CSS created the ENGR-SOFTWAREUPDATES list, which uses the Listserv software. Now that the list has been created, CSS will subscribe all faculty and staff to the list. Look for email from "L-soft list server at University of Iowa" with your enrollment information.

Once you are subscribed, you'll get email from the list whenever CSS plans to install new or updated software. Mail to the list will have a subject line that begins [ENGR-SOFTWAREUPDATES]. Send questions about software installation to [consultant@engineering.uiowa.edu](mailto:consultant@engineering.uiowa.edu).

For information on getting started using the Listserv software, read [this ITS web page](#).

### Unsubscribe

If you do not want this information,

you can unsubscribe. To unsubscribe to this list, address an e-mail message to [listserv@list.uiowa.edu](mailto:listserv@list.uiowa.edu)

Put the following in the body of the message:

**signoff ENGR-SOFTWAREUPDATES**

Do **not** include your name or e-mail address in the body of the signoff message.

For help with a list subscription, talk to the consultant, 335-5055, 1253 SC.

### Subscribe

If you are not automatically subscribed to the list (or have unsubscribed) and want to receive the software update email, go to the [listserv](#) web page, select **List Archives**, then select the **list you wish to subscribe to (join)** or **unlisted archive form**, and select **Join or leave the list (or change settings)**. The e-mail address you enter on the web form **must** match the From: address supplied by your e-mail system.

### Another Software Note

At the end of this semester, CSS plans to remove Delmia and VIP + IDL.

~Dan Mentzer

### The Better to See...

CSS will replace the flat screen monitors in the Henry Electronic Classroom, 1245 SC, with 22" flat



screens. As is true now, those monitors will be mounted on the adjustable arms that allow each user to position it.

When 1245 is not being used by classes (check the [schedule](#)), students can use it as a lab, like the Elder and Hering labs further north on the same hallway.

## Linux – Leave On

**D**o not turn off the Linux workstations. Other user jobs may be running in the background; those jobs will be killed if the machine is turned off. If you have problems with a Linux machine, please tell the user consultant what the problem is and which machine is misbehaving.

**No dé vuelta apagado a esta computadora.  
(Do not reboot or turn off this machine.)**

Report problems to the consultant in 1253 SC, 335-5055.  
Rebooting could kill other users' login sessions.

Thank you.

## Keyserver Data; What's Popular

## Mathematica 6 Player

### Top 10

The Keyserver software (see the article about Keyserver in the August 06 Essentials) keeps track of software launches on the Windows computers in the Hering and Elder labs, and Henry Electronic classroom. After running Keyserver for nearly two years, we now have our own Top Ten Lists organized below by number of launches (all programs), length of sessions (all programs), and engineering applications by length of accumulated time. Data are from 1/13/06-11/13/07.

### Top 10 Applications Launched

Application	# of Launches
Internet Explorer	181,785
Firefox	136,808
Microsoft Word	116,466
Adobe Reader	114,022
Microsoft Excel	35,182
Microsoft PowerPoint	26,954
Acrobat Distiller	22,129
WordPad	21,465
Microsoft VC++	17,981
WinRAR	14,648

### Top 10 Applications by Total Session Time

Application	Session Time (seconds)
Internet Explorer	461,886,196
Firefox	391,008,246
Microsoft Word	349,447,054
Adobe Reader	296,943,652
Microsoft Excel	130,764,430
Microsoft PowerPoint	85,755,475
Microsoft VC++	65,046,296
Acrobat Distiller	55,368,573
WordPad	55,051,072
MATLAB	51,281,926

### Top 10 Engineering Applications by Total Session Time

Application	# of Launches	Session Time (seconds)
Mathematica	14,315	48,626,856
MATLAB	14,263	51,281,926
Pro/ENGINEER	7,346	28,498,401
Interactive Heat Transfer	5,730	16,166,523
AutoCAD	3,842	13,624,521
ANSYS	3,209	14,006,892
Arena	1,999	9,128,180
PSpice	1,323	3,480,087
ChemCAD	1,136	6,191,959
Minitab	933	3,885,558

Notice that total session time order would be slightly different than number of launches order.

~Christopher Fomon

**W**ith Mathematica 6, we reinvented the way people think about computation, making it possible to create dynamic applications with just a few short lines of code.

We are excited to announce a new service that makes it easy to publish and share those dynamic applications with anyone--whether or not they have Mathematica 6. Using the new Publish for Player site, you can now convert your interactive notebooks for use with the free Mathematica Player. That means you can instantly begin deploying your work to others without any software barriers.

The entire process takes just a few seconds. When you upload your notebook (.nb), a link to the translated Player file (.nbp) is immediately sent back to you by email.

Visit the [Publish for Player site](#) to start converting your notebooks:

We'd be pleased to hear your feedback about this new service. Try it out and contact us if you have any comments or need more information about your deployment options.

The [Mathematica Product Team](#)  
Wolfram Research

**CSS Mission:** To provide a secure, reliable and innovative computer environment that facilitates, supports and enhances the mission of the College of Engineering.

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