

Can You Save **MONEY** With Free Software?

PRESENTED BY

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No Cost Software (freeware)

- IBM Lotus Symphony 1.2
- iTunes
- Safari
- Adobe Flash Viewer
- Adobe Acrobat Reader



Free Software (free as in freedom)

- Firefox
- Thunderbird
- MySQL
- PostgreSQL
- Ingres Database
- Open Office
- VLC Media Player
- Audacity
- TrueCrypt
- Freemind
- GIMP
- Inkscape
- Blender
- Thousands more...

Proprietary Software (software in **jail**)

“What a lot of people don't realize or don't think about is that when you purchase software, you are actually purchasing a license to use it, not the actual software.”⁷

The Strings That **BIND** US?

- Investment in current proprietary applications and Operating Systems
- Text books and course material tied to proprietary applications
- No one ever got fired for using the “safe” vendors
- Fear of the unknown or having to "learn it again"
- End user training (transition plan)
- Technical expertise

I Have To Have It!

Virtual machines and remote sessions using RDP or VNC can be used for giving users access to most proprietary software that can not be replaced. You might already use thin clients, Citrix or Terminal Services in your environment today.

LOOSEN The Strings (Baby Steps)

- Take an inventory of all software applications used on your campus
 - Replace proprietary applications in areas that do not require them
 - When developing new curriculum plan on using free and open source software
- Replace proprietary operating systems with a FOSS operating system like Ubuntu.

Cross Platform Free and Open Source Applications

- Blender
- GIMP
- Inkscape
- Scribus
- Tux Paint
- iTALC
- Firefox
- Thunderbird
- Audacity
- OpenOffice
- Truecrypt



Edubuntu Titles

<http://www.edubuntu.org/applications/8.10>

Atomix is a game designed for GNOME in which you have to build molecules, from simple inorganic to extremely complex organic ones, out of isolated atoms.

Dia is an editor for diagrams, graphs, charts etc. There is support for UML static structure diagrams (class diagrams), Entity-Relationship diagrams, network diagrams and much more. Diagrams can be exported to postscript and many other formats.

Edubuntu Titles

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Gobby is a free collaborative editor supporting multiple documents in one session and a multi-user chat. It runs on Microsoft Windows, Mac OS X and Linux.

- Real time Collaboration through encrypted channels (version 0.4.0 and up)
- Each user has its own changeable color to be identified by others
- IRC-like chat for communicating with your partners while coding
- Syntax highlighting for most programming languages
- Session password protection
- Multiple documents in one session
- Drag'n'drop of documents into Gobby
- Document synchronization on request



Edubuntu Titles

<http://www.edubuntu.org/applications/8.10>

QCad 2 is a professional CAD System. You can easily construct and change drawings with ISO-texts and many other features and save them as DXF-files. These DXF-files are the interface to many CAD-systems such as AutoCADR and many others.



Edubuntu Titles

<http://www.edubuntu.org/applications/8.10>

“**GCompris** is an educational software suite comprising of numerous activities for children aged 2 to 10. Some of the activities are game orientated, but nonetheless still educational. Currently GCompris offers in excess of 100 activities and more are being developed. GCompris is free software, that means that you can adapt it to your own needs, improve it and, most importantly, share it with children everywhere.”⁶

Spotlight Application

iTALC - Intelligent Teaching And Learning with Computers

iTALC is a user- and powerful didactical tool for teachers. It lets you view and control other computers in your network in several ways. It supports Linux and Windows 2000/XP (Vista support will come) and it even can be used transparently in mixed environments!

Spotlight Application

iTALC - Intelligent Teaching And Learning with Computers

iTALC has been designed for usage in school. Therefore it offers a lot of possibilities to teachers, such as

- see what's going on in computer-labs by using overview mode and make snapshots
- remote-control computers to support and help other people
- show a demo (either in fullscreen or in a window) - the teacher's screen is shown on all student's computers in realtime

Spotlight Application

iTALC - Intelligent Teaching And Learning with Computers

- lock workstations for moving undivided attention to teacher
- send text-messages to students
- powering on/off and rebooting computers per remote
- remote logon and logoff and remote execution of arbitrary commands/scripts
- home-schooling - iTALC's network-technology is not restricted to a subnet and therefore students at home can join lessons via VPN-connections just by installing iTALC client

What Could Be **SAVED?**

(3000 computers over six years)

OS X

- OS (\$60 every two years)
- Office (\$60 every three years)
- Photo Shop Elements (\$60 every three years)

Total: \$1,260,000

or

\$210,000 per year

Windows

- OS (\$60 every three years)
- Office (\$60 every three years)
- Photo Shop Elements (\$60 every three years)

Total: \$1,080,000

or

\$180,000 per year

OS = Ubuntu (\$0)

Office = OpenOffice (\$0)

PhotoShop = GIMP (\$0)

Total \$0

What Could Be **SAVED?**

(hidden costs – the back end)

Directory Services

Active Directory:

.66 per student, \$6.90 per faculty/staff

VS

Fedora Directory Server or OpenLDAP:
0\$ per user



What Could Be **SAVED?**

(hidden costs – the back end)

Email

Exchange:

standard CAL \$3.10 each , enterprise CAL \$8.97 and
\$923 for each server (you will need three or more)

VS

Zimbra - \$0 per user, \$0 per server



What Could Be **SAVED?**

(hidden costs – the back end)

Learning Management System

Sharepoint:

student \$1.16 each, faculty \$16.65 each

VS

Moodle:

\$0 per user

Alfresco:

\$0 per user



Avoid the BSA

Business Software Alliance

“The Business Software Alliance is the voice of the world’s commercial software industry and its hardware partners before governments and in the international marketplace. BSA programs foster technology innovation through education and policy initiatives that promote copyright protection, cyber security, trade, and e-commerce.”⁷

Avoid the BSA

Business Software Alliance

- Temple University paid \$100,000
- The City of Issaquah, Washington paid \$80,000
- The Los Angeles Unified School District paid only \$300,000 in fines, but \$3 million for legal licenses and \$1.5 million for an anti-piracy team
- Chinook School Division paid \$200,000 ⁸

"Licensing requirements are so complex," Leon Kos says, adding that if the BSA conducted another audit, "I'm confident they would find a problem."

Success Stories

InACCESS

Indiana sponsors one of the most extensive statewide programs to provide class sets of low-cost student workstations using Linux on the desktop. The Indiana Affordable Classroom Computers for Every Secondary Student (InACCESS) grant program has placed more than 22,000 workstations in 24 high schools across Indiana.¹

Success Stories

InACCESS

“Kevin McGuire at Michigan City Area Schools stated that additional technical support staff has not been required; the existing five-member team supports all 3,500 machines.”¹

“According to McGuire, teachers are getting up to speed with comparatively little training.”¹

Success Stories

InACCESS

“By the second year, Alexandria Schools was so pleased with the results that it installed three additional one-to-one classrooms using its own funds (about \$25,000 per classroom). This time Ice opted for no hard drives and a thin client from Linux Terminal Server Project (LTSP). He was concerned about extra heat from all the new computers and thought that removing the hard drives was one way to manage that issue. That solution is expected to greatly reduce the complexity of technical support.”¹

LTSP?

The Linux Terminal Server Project adds thin-client support to Linux servers. LTSP is a flexible, cost effective solution that is empowering schools, businesses, and organizations all over the world to easily install and deploy desktop workstations. A growing number of Linux distributions include LTSP out-of-the-box.²

Success Stories

University of North Carolina School of Medicine

"Going with an open-source application saved the school plenty of money by avoiding the need for licensing fees, according to Charlie Hitlin, manager of application development and media services for the UNC-CH SOM. The SOM's open-source experiment also paved the way for other UNC-CH departments to get involved with the free code movement." ³

Success Stories

Howard County Library

“Howard County Library uses open source software on:

- 100% of servers
- 100% of customer computers (316 computers offered system-wide)
- 70% of staff computers (25% more to convert in Summer and Fall 2009)

Howard County Library uses a wide range of open source computer software in order to: expand access to library collections and services; exceed customer expectations, and to contain hard costs for software licenses and computer hardware.”⁴

Success Stories

Howard County Library

“Our requests for help/help desk tickets have dropped by 40% since the Windows NT days. Most customers sit at the machine and work away, requiring no help. Customers who are less comfortable on a computer have questions, but they are not Linux-based. Instead, ‘How do I bold text?’ or ‘How do I add a page break?’ The kind we’d get with any application.”⁵

~ Amy de Groff, Head of IT for the Howard County Library

Success Stories

Edubuntu and GCompris

"I've installed an Edubuntu system at a local church that sponsors an after-school help program for students for all grades. The kids immediately understood how to use the software and really enjoyed the games. Being allowed to play the G-Compris games is now considered a "Reward" that the students look forward to at the end of their regular lessons"

~ Jason McEachen

Success Stories

Edubuntu and GCompris

“Our school is a Pre-K - 5 parochial institution. When introducing our 5-year old students to computers, we use this outstanding tool to teach the basics of operating a mouse. It’s just what we were looking for. Simple, fun, stimulates their interest and keeps them focused.”

~ R. Barnes IT Coordinator
Sacred Heart School - Rockport, TX

Useful Links

Useful Links

- <http://www.k12opentech.org/>
- <http://www.netc.org/openoptions/>
- <http://www.k12opensource.com/>
- <http://www.classroomtco.org/>
- [http://www.libsuccess.org/index.php?
title=Open_Source_Software](http://www.libsuccess.org/index.php?title=Open_Source_Software)
- <http://www.edtechvoi.org/>



Footnotes

1. <http://www.k12opentech.org/implementation-study-2-indiana-desktop-linux>
2. <http://www.ltsp.org/>
3. <http://tinyurl.com/bom388>
4. <http://hclibrary.org/index.php?page=97>
5. <http://gnomejournal.org/article/61/maryland-library-benefits-from-its-switch-to-linux>
6. <http://gcompris.net/-en->
7. <http://www.bsa.org>
8. <http://www.maplecreeknews.com>

