

## Athena 10: the Next Generation

ACCORD

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Session



Athena 10 is a collaporation between Information Services & Technology and the Student Information Processing Board

Thu May 21, 8:47 PM

□ a major new release of the MIT Athena Computing Environment

□ based on Ubuntu Linux (no more Suns after this Summer)

□ developed by IS&T in partnership with SIPB

□available now, to be rolled out to all Athena clusters this Summer

mostly compatible with Athena 9.4 functionality and software but easier to install, maintain and administer

underlying Ubuntu distribution is preferred by most users for functionality, ease of use

the Athena release is "layered" on top of standard Ubuntu, no longer monolithic; no longer necessary to completely wipe hard drive; simple to uninstall

Detter removable device handling- CDs, DVDs, USB drives automount

users have a choice of "flavors" to install, adding various Athena features, no longer "all or nothing"

#### □ debathena-standard

(use local account to log in, no Athena integration, separate steps to get tickets and tokens, easy access to AFS)

#### □debathena-login

(adds: ability to login to AFS home directory with Kerberos username/password)

#### □ debathena-login-graphical

(adds: Gnome, Firefox, Evolution integration, Debathena login screen)

#### □ debathena-workstation

(adds: autoupdate, caching name server/NTP config, /tmp cleaner, extra local software)

#### □ debathena-cluster

(PXE install only, completely erases disk, no local configuration or local storage, even more extra local software)

□ it will follow the 6 month Ubuntu release cycle, keeping software current

Athena customizations install as Ubuntu packages or package groups named "debathena-\*", allows clean separation of Athena, non-Athena components

many applications formerly in lockers will now be standard Ubuntu packages (debathena-thirdparty package group on cluster machines, optional install on others)

better laptop experience, ability to retain some Athena functionality when off the network

- □ automounter for lockers below /mit; no need to "attach" to access files
- network configuration and services handled by standard OS utilities, not special Athena configuration files and utilities
- □ cluster machines have a virtual file system ("chroot jail") that prevents users from making lasting changes to system files
- users on cluster machines can (temporarily) install any package available in standard Ubuntu repositories

 changed concept of "release"; small, incremental package updates, major releases will be Ubuntu releases, twice a year in Fall and Spring follows the same single sign on/distributed computing/serial reusability model

most Athena services and infrastructure retained (Kerberos, Hesiod, Moira, Discuss, Zephyr...)

AFS infrastructure and lockers will continue as before, including Third Party software lockers (but many applications in lockers will move to Ubuntu packages)

□ Quickstations will be available

□ printing services in public clusters will be provided as before

## some applications will be supplied in lockers even though a Ubuntu package is available

□ because the package requires custom configuration of add-ons (R)

□ because the package is too old (eclipse)

both versions may be installed; different launch commands are used to access them

### references:

IS&T News Software Spotlight http://web.mit.edu/ist/isnews/v24/n02/240203.html

Debathena page http://debathena.mit.edu/beta

Setting access control http://debathena.mit.edu/access-controls

# To run the presentation again on an Athena machine

add -f magicpoint

attach evaluate

mgp /mit/evaluate/athena10/athena10.mgp