What's Ahead in Antelope

2010 edition

Last year:
IS SUN SETTING?

- Sun no longer sells a sparc workstation (for last year)

- lowest priced server ~ $15k

- In last decade:

    - founders departed

    - company is shrinking, unprofitable

    - mission unclear

    - sparc performance not so good

Sun has set.

✳ Sun no longer exists as a company, it's part of Oracle now.

✳ new focus appears to be extremely large databases and integrated large servers

✳ sparc future very cloudy

BRTT focusing on Apple

✳ integrated hardware and software

✳ price point matches customers

✳ performance is good

✳ stable future (we hope)

What should you do?

✳ If you use Suns, you need to plan how to move from Sun -- how soon depends on your situation -- whether you need new computers soon, or you can use your existing computers for a few more years.

✳ BRTT will continue to produce releases on Sun, so long as our existing Sun workstations continue to work.

✳ But our development is all done on Mac's now.

Big Transition This Year

✳ Solaris to Mac OS X

  ✳ Things are different

  ✳ surprises

  ✳ probably more volatile

✳ 32 bit to 64 bit

  ✳ probably still some 32/64 bit issues

✳ continuing gradual move away from tcl/tk to perl

✳ contrib -> git instead of CVS

Antelope 5.0-64

* 64 bit release:

    * Mac OS X (Leopard or Snow Leopard)

    * Solaris 10 (frozen -- no Open Solaris)

    * Linux (OpenSUSE 10.3)

        * on a mac-mini

64 bit consequences

* larger programs

* larger databases

* larger files (e.g., miniseed, seed)

* potentially faster

* no orbserver64

Programming Issues

✳ should be transparent if you use perl, tcl/tk, matlab or just the shell

✳ c programmers have work to do -- separate talk, if there's interest

✳ css3.0 schema is due for updates, just making various fields larger and/or more precise (e.g., nsamp, id fields)

Miscellaneous

✳ much more miniseed/seed debugging

  ✳ msdd interactive option

✳ option to ignore some tables in dbcp

✳ dbbuild various improvements

✳ many retired programs

* dbloc2: more focus on more magnitude measurements

  * origin magnitudes ignored now

* recommend cdorb2db instead of orb2db

* new options in pktmon

* lots of updates in q3302orb

* some moves toward ipv6 : does anyone care?

* dbTABLE_CREATION

Upgrading to a new release
(in theory)

* Be cautious, proceed with deliberation, have a plan

* plan should include keeping original system running until confident in new release

* Read the release notes and the changes files

* Make your own comparisons of parameter files and man pages

* Make sure your computer and os are compatible.

* Set up a parallel system to try things out

Better FAQ on website

✳ http://www.brtt.com/wiki

✳ request account by using login button

✳ enter a question and answer

✳ edit an answer

✳ discuss an answer

✳ look up man pages

Configuring a new Mac

✳ Probably should use Mac OS X extended, journaled, case sensitive file systems. (Possibly not case sensitive root and Applications, if you want to run Adobe products).

✳ Antelope should be on case sensitive filesystem (unless you don't need to distinguish pP and PP)

✳ Experience suggests putting (large) orbserver files on a separate partition

✳ perhaps waveform files also

✳ turn off sleep mode

✳ set reboot after power fail

✳ set up /etc/postfix/main.cf for mail

✳ disable Spotlight

    e.g. modify /etc/hostconfig to read:

```
SPOTLIGHT=-NO-
```

✳ edit ssh.config, sshd.config

✳ menumeters or istat menus

✳ install Developer Tools (not installed by default)

✳ turn on remote logins

✳ add local hosts to /etc/hosts

* provide an rt user to run antelope

* provide an admin user to do system administration tasks

  * including installing antelope

* provide a brtt user for ssh access from brtt

* if there are multiple machines, you must take special care to make sure users have the same uids

* automounting (for multiple machines)
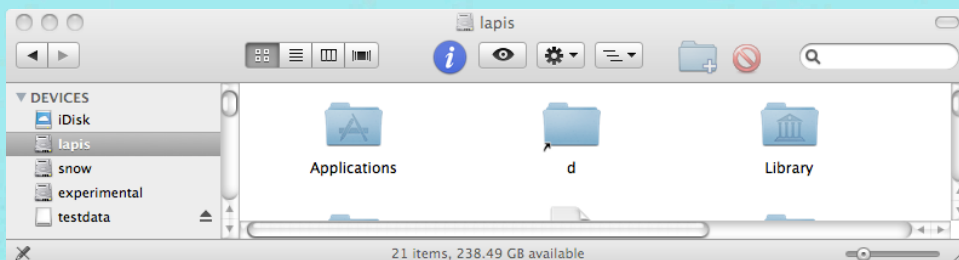
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* Console

* System Profiler

* Activity Monitor

✳ Customize dock

  ✳ add terminal, console, Activity Monitor

✳ change mouse preferences to get 3 button mouse

✳ Customize Finder windows

  ✳ add path, delete buttons, others?

✳ use apple-shift-g at open dialog to type in path

✳ try SetFile to make directories visible in finder

  ✳ SetFile -a -v /opt

✳ macs have used : (colon) as a directory separator, instead of / -- some wfdisc records may have file names with embedded colons: db2mac(1)

✳ possibly install MacPorts

✳ possibly install git

✳ possibly run locate daemon

✳ possibly install exuberant ctags

✳ malloc debugging

✳ no ldd, use otools -L or otx

✳ Crash Reporter

✳ poll : don't use it

✳ consider using a .command suffix for scripts?

✳ if you have to have fortran

hpc.sourceforge.net

Survey

BRTT and Kinemetrics are conducting a survey of our customer sites. We hope to use this to better understand our customers and their needs. We would appreciate it very much if (at least) one person at each site could fill out this survey for the site. We also welcome any feedback anyone at the site may have. Thank you for your participation.

Please describe your site:

- How many seismic stations does your site manage directly?
- Please categorize the stations according to sensor, datalogger, and acquisition software. (e.g. 5 sts-2 with Q330 dataloggers using Q3302orb)
- How many people work at your site to maintain the data collection and analysis?
- Do you have a person dedicated to computer system administration?
- Do you have a seismologist on staff?
- Do you have seismic analysts on staff?
- From how many seismic stations do you obtain data directly, using Antelope software ___ using other software ____ (please specify other software) ___
- From how many external stations (outside your organization) do you obtain data ___ What software do you use to import this data _____
- Do you import gsn data?
- Does your site wish to locate local events (within your network of stations)?
- Does your site wish to locate regional events (within a few radii of your network)?
- Does your site wish to locate global events (around the world)?
- Do you import external catalogs? from where, using what software (BRTT, contrib, in-house)?

- Do you use software from the Antelope contrib site?
- Do you currently develop your own software locally? In what languages? (e.g., perl, tcl/tk, python, c, website)
- Are there important capabilities missing from Antelope you would like to see in the future?
- Are you willing to pay some of the development costs for new capabilities?
- Are you able to collaborate with other sites to develop new software?
- How could BRTT or KMI facilitate such development?
- Do you have specific issues with Antelope software?
- Do you have specific issues with hardware from Kinemetrics?
- Which two or three features would you most like to see in future releases of Antelope?
- Is there some single thing which Kinemetrics or BRTT could do to best help your operations?
- What is your overall satisfaction level with the Antelope software package?
- What is your overall satisfaction level with support provided for the Antelope software package?
- Do you feel you need additional training in use or configuration of Antelope?
- What specific training would help (one-on-one, large seminar/overview , systems operations, systems configuration, programming, web development, etc.)?
- Would you be willing to pay for specialized training and how often would you need it?
- Do you have other suggestions?