



# **Cray Open Software (COS)**

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## Original Plans for COS

- Method for releasing OpenSSH for UNICOS and UNICOS/mk
- Source release only - no binaries
- Cray versions would lag for stability
- CUG 2001 “Lots of adopters means we can add more products by your direction”





## Progress Against Plans

- COS 1.0 released in July 2001:
  - OpenSSH, OpenSSL, zlib, Perl (unsupported)
  - Buildable source only
- COS 2.0 released in January 2002:
  - New packages: autoconf, diffutils, findutils, gawk, less, m4, make, sed, sh-utils, tar and TeXinfo,
  - Updated packages: OpenSSH and OpenSSL plus the unchanged zlib
  - Buildable source **and** binary format





## Progress Against Plans (Cont.)



- COS 3.0 released in April 2002:
  - New packages: bison, CVS, flex, gnuplot, gzip, patch, vim
  - Updated packages: OpenSSH, OpenSSL, zlib
- COS 3.1 not released - *things happen...*
- COS 3.2 released in September 2002:
  - New packages: automake
  - Updated packages: **supported** Perl, Tcl/tk, OpenSSH, OpenSSL



## Progress Against Plans (Cont.)

- COS 3.3 released in December 2002:
  - First support for Cray X1 systems running UNICOS/mp
  - New packages: bash, top, gdb and sudo
  - Updated packages: bison, diffutils, gawk, less, OpenSSH, OpenSSL, autoconf, automake, TeXinfo and vim





## Progress Against Plans (Cont.)



- Lots of adopters, lots of requests, many new packages, less lag than anticipated
- Desire to provide more packages sooner required three-tier support policy:
  - Fully Supported
  - Lightly Supported
  - Unsupported



## Future Plans

- COS 3.4 will release in late May 2003
  - New packages: bc, sendmail
  - Updated packages: bison, CVS, OpenSSH, OpenSSL, sed, sh-utils, autoconf, TeXinfo and gdb
  - Available in source and binary release format for:
    - Cray J90, SV1, T90 (CFP and IEEE), T3E, and X1 systems
  - Some components will only be available on some platforms





## Future Plans (Cont.)



- COS 3.4 components:
  - Fully supported components:
    - bash GNU version 2.05b (Cray X1 only)
    - bc GNU version 1.06
    - bison GNU version 1.875
    - CVS GNU version 1.11.5
    - diffutils GNU version 2.8.1
    - findutils GNU version 4.1
    - flex GNU version 2.5.4
    - gawk GNU version 3.1.1
    - gnuplot GNU version 3.7.1
    - gzip GNU version 1.3.3
    - less GNU version 378
    - make GNU version 3.79.1





## Future Plans (Cont.)

- COS 3.4 components:
  - Fully supported components (Cont.):
    - OpenSSH version 3.6.1p1
    - OpenSSL version 0.9.7a
    - patch GNU version 2.5.4
    - Perl version 5.6.1
    - sed GNU version 4.0.6
    - sh-utils GNU version 2.0.15
    - sudo version 1.6.6
    - tar GNU version 1.13
    - Tcl/Tk version 8.3.4
    - top version 3.4 (Cray X1 only)
    - zlib version 1.1.4





## Future Plans (Cont.)



- COS 3.4 components:
  - Lightly supported components:
    - autoconf GNU version 2.57
    - automake GNU version 1.6.3
    - m4 GNU version 1.4ppre2
    - TeXinfo GNU version 4.5
    - vim version 6.1
  - Unsupported components
    - gdb GNU version 5.0 (Cray X1 only)
    - sendmail version 8.12.9 (UNICOS and UNICOS/mk Only)  
*(latest version is part of UNICOS/mp for the Cray X1)*



## Future Plans (Cont.)



- Packages actively being worked:
  - New packages: expect-5.18, emacs-21.2
  - Updated packages: automake-1.7.3, gawk-3.1.2, make-3.80, perl-5.8.0, tcl-8.4.2, tk-8.4.2
- Going forward:
  - Some packages may migrate to standard OS release components
  - Some new packages may only be supported on late-model hardware (e.g., Cray X1)
  - All changes are being given to the “community” (except for gdb)
  - Sites can request new packages via DESIGN SPRs.



# Cray Open Software

- Questions?

