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internet &
interoperability update

internet & interoperability accomplishments since hpworld 2000

- Apache 1.3.9 and 1.3.14
- Apache jserv as freeware
- DCE RPC 1.2.1
- FTP improvements
- NSSWITCH name resolution config
- POSIX pthreads Draft 10
- Samba 2.0.7
- SIB NTP 4.1.0 as freeware
- SIB OpenSSL 0.9.6a as freeware
- SIB Perl 5.6.1 as freeware
- Entering the Wireless Internet white paper
- invent3k public access machine
- May 2001 webcast

apache

- world's most popular web server
- version 1.3.14 is latest for MPE:
 - 1.3.4 for 6.0 via <http://jazz.external.hp.com/src/apache/>
 - 1.3.9 for 6.5 via APCFDX6B
 - 1.3.14 for 7.0 via APCGD14A
 - 1.3.14 for 7.0exp1 FOS
- new features from 1.3.9 onward:
 - DSO capability with EAPI (1.3.9) permits the easy addition of new functionality modules
 - mod_proxy, mod_rewrite, mod_vhost_alias (1.3.9)
 - new installation scheme (1.3.14)
 - plus many apache.org bug fixes

apache jserv

- Apache support for Java servlets
- version 1.1
- available as unsupported freeware for MPE 6.0 or greater
 - older technology superseded by Tomcat
 - licensing issues with dependent Sun code
- for supported Java servlets, the use of Tomcat bundled inside Lutris Enhydra is recommended
- http://jazz.external.hp.com/src/hp_freeware/jserv/

dce rpc

- Remote Procedure Calls (RPC) between heterogeneous systems
- version 1.2.1
 - contact HPRC for 6.0, 6.5, 7.0 patches
 - dependent on Draft 10 threads patches
 - SUBSYS in 7.0exp1
- new features in 1.2.1:
 - library is now /usr/lib/libdce.sl
 - private client sockets
 - log event serviceability
 - exception handling
 - various IDL improvements

ftp improvements

- file transfer protocol (FTP)
- contact the HPRC and ask for:
 - 6.0 FTPGD62A (BT)
 - 6.5 FTPGD63A (BT)
 - 7.0 FTPGD49A (BT)
- support for passive mode in both client and server
- improved server support for POSIX with configurable default HFS view
- console logging of usernames and IP addresses

nsswitch name resolution configuration

- NSSWITCH.NET.SYS
- configures hostname lookup order & fallback relationships between DNS and HOSTS.NET.SYS to provide improved flexibility and fault tolerance
- contact the HPRC and ask for:
 - 6.0 NSRGD65A (LD)
 - 6.5 NSRGD68A (LD)
 - 7.0 NSRGD69A (LD)

posix pthreads

- POSIX pthreads Draft 10 API
- part of FOS, decoupled from DCE
- /usr/lib/libpthread.sl
- contact the HPRC for patches for 6.0 and greater (all beta)
- libc binary backwards compatibility issues for programs using POSIX signals

samba

- turn your e3000 into a Windows file and print server
- version 2.0.7
 - SMBLXQ1A for 6.5
 - SMBLXQ1B for 7.0
 - FOS for 7.0exp1
- new features in 2.0.7:
 - user selectable name resolution order
 - improved share mode handling
 - western European language support
 - additional MPE filename characters
- unsupported freeware versions available from www.sambaix.com

sib ntp freeware

- Network Time Protocol (NTP)
 - your e3000 as a time server
 - set your e3000 clock from other time servers
- version 4.1.0
- diffs submitted but not yet integrated
- http://jazz.external.hp.com/src/hp_freeware/ntp/

sib openssl freeware

- crypto & SSL libraries and utilities
 - general purpose file encryption utility
 - S/MIME e-mail functionality
- version 0.9.6a
- diffs already integrated
- http://jazz.external.hp.com/src/hp_freeware/openssl/

sib perl freeware

- Perl scripting language
- version 5.6.1
- TurboIMAGE interface now available as an add-on module from Ted Ashton!!!
- diffs submitted and already integrated into the latest 5.7.x developer release
- http://jazz.external.hp.com/src/hp_freeware/perl/
- official HP-supported Perl not currently planned

invent3k public access machine

- fully-loaded e3000 989-400 on the Internet
 - FOS plus the full HP SUBSYS collection of products
 - includes gcc and other great freeware Internet apps
 - currently 6.5exp2, updating to 7.0exp1 at FCS
- test existing software
- develop new software
- <http://jazz.external.hp.com/pads>

the future (partial list)

- Samba 2.0.10 w/encrypted passwords
- SIB PHP freeware
- sendmail in FOS (supported)
- WebWise Secure Web Server in FOS based on latest Internet version of Apache; will supersede the existing FOS Apache web server
- multicast sockets

any questions?