

# HP-UX 11i v3 Knowledge-on- Demand

HP technical Webcast series:  
Performance optimization for developers

**Technology Solution Group: Solution Alliances and Business  
Critical Systems**

**Hewlett-Packard Company**

**Email: [hpuxquestions@hp.com](mailto:hpuxquestions@hp.com)**



# HP-UX 11i v3 Knowledge-on-Demand

- Objective: Support software development partners and customers in achieving better business outcomes with HP-UX 11i.
- What HP is providing: a series of technical on-demand training Webcasts
  - Focused on helping developers increase performance through application optimization for HP-UX 11i v3 on HP Integrity servers
  - Access to HP for follow-up questions
  - Available at [www.hp.com/go/knowledgeondemand](http://www.hp.com/go/knowledgeondemand)

# HP-UX 11i v3 Knowledge-on-Demand Webinars – planned curriculum

- Foundation Track
  - Module 1: How to upgrade to HP-UX 11i v3
  - Module 2: HP-UX open source resources
  - Module 3: Unified file cache
  - Module 4: Caliper
  - Module 5: NUMA Tuning: Getting the Most Out of Your Cellular Server by using NUMA
  - Module 6: The Mercury Library – Increasing Application Performance
  - Module 7: Software Transition Kit's (STK's) for HP-UX 11i v3
- Java Developers Track
  - Module 8: Java Memory Management - Internals and Performance
  - Module 9: HPjmeter – measure Java application performance on HP-UX 11i
  - Module 10: Solving Java performance problems
- C/C++ Developers Track
  - Module 11: pthreads enhancements in HP-UX 11i v3
  - Module 12: Kernel tracing & profiling tools (internal tools)
  - Module 13: Using compilers to get optimal performance
  - Module 14: HP Code Advisor: A Powerful New C/C++ Analysis Tool for HP-UX
  - Module 15: Montecito Hyper-Threading on HP-UX 11i v3

Additional Webinars  
published going forward!

# Related HP-UX 11i v3 resources

- All developers' resources
  - HP-UX 11i developers' content  
[www.hp.com/go/hpuxdev](http://www.hp.com/go/hpuxdev)
  - HP-UX 11i v3 news, functionality, product download and services resources  
[www.hp.com/go/hpux11i](http://www.hp.com/go/hpux11i)
  - HP Integrity server ISV resources for DSPP members  
[www.hp.com/go/dspp\\_integrity](http://www.hp.com/go/dspp_integrity)
  - HP Integrity server product information  
[www.hp.com/go/integrity](http://www.hp.com/go/integrity)
- Software partner promotional opportunity
  - HP promotion for HP-UX 11i v3-ready software partner application  
[www.hp.com/go/v3promotion](http://www.hp.com/go/v3promotion)

# Enjoy this Knowledge-on-Demand topic!

Thank you for taking time to learn about HP-UX 11i v3 and related technologies.

Please send comments on today's topic and/or requests for future topics to:

[hpuxquestions@hp.com](mailto:hpuxquestions@hp.com)

# HP-UX Open Source resources

**Alex McKale, HP  
Advanced Technology Center  
Java, Compilers, and Tools Lab**



# Introducing today's speaker

Alex McKale has been driving customer needs and requirements into HP's compiler and language labs for several years.

A key component of his work has been the regular communication of these improvements and enhancements in HP's compiler and language tools technologies back to the ISV community.

Prior to that he worked on developer technologies at a number of companies including Apple, Blyth, Electric Communities, and Paramount Communications.



# Agenda - Open Source Development Tools

- Where do you go?
- What's there?
- What if what I want is missing?
- Other HP-UX Open Source resources

# HP-UX porting and archive center

- Developer related open source tools for HP-UX.
- Porting and archive center for HP-UX:
  - <http://hpux.cs.utah.edu/>
- Mirror sites around the world to enable easier access and download of tools.
- Center is accessible from HP's Developer and Solution Partner Program portal, <http://www.hp.com/dspp/>



# HP-UX porting and archive center

- About 350 open source tools/packages available from archive center for HP-UX on integrity
- Core packages updated to newer released versions typically once every six months
- For questions/issues with the tools/packages on the archive center, contact [hp-ux@connect.org.uk](mailto:hp-ux@connect.org.uk)
- Only **un**official HP support available for these open source tools.



# Most popular packages in the archive

- gcc GNU C and C++ compilers and binutils
- tusc Traces the system calls a process invokes in HP-UX 11
- flex A fast lexical analyzer generator
- autoconf M4 macro configuration and scripting package
- xpm Package for manipulating X pixmaps
- zsh Shell combining best of ksh and csh into one
- jpeg Stanford Image sequence compression C software engines
- gdbm GNU dbm is a set of database routines
- imageMagick An X11 package for display and manipulation of images
- termcap Application programmer interface to the termcap database
- emacs A self-documenting, customizable, extensible text editor
- gtk+ Gimp ToolKit for creating graphical user interfaces
- gzip Compress or decompress file using Lempel-Ziv algorithm
- glib Useful library routines for C programming
- qdbm Routines for managing a database
- coreutils GNU core utilities
- shtool GNU portable shell tool
- Gre A simple text editor for Bi-Di Languages
- Glib2 Low-level core library for GTK+ and GNOME
- Patch Applies diffs to files to reproduce new versions

#### Search for a package

- Package name
- Description
- Author

Search Term

- Case Sensitive

#### Latest Packages:

**9 Jul:** [glibc-4.16](#)  
The GNU Linear Programming Kit

**6 Jul:** [unzipbeta-6.0c](#)  
List, test or extract from a ZIP archive file

**6 Jul:** [zipbeta-3.0e](#)  
Archiver and compressor popular on MS-DOS systems

**4 Jul:** [lsnf-4.78](#)  
List files, sockets, etc opened by processes

**3 Jul:** [gd-2.0.35](#)  
A graphics library for creating GIF and PNG files

Locator: Home

#### Welcome

to the Porting And Archive Centre for HP-UX in the USA. This site contains Open Source packages which have been configured and ported to HP-UX.

[Full Catalogue of Open Source HP-UX Ported Software](#) [Archive FAQ](#) Frequently asked questions about this archive. [What's New?](#) We now support HP-UX 11i v3 (11.31) on both PA-RISC 2.0 and Itanium 2 for all new package releases. [HP-UX Related Sites](#) by Other sites which are related to HP-UX including HPs access points on the web. [HP User Groups](#) The archive works closely with many HP User Groups throughout the world and you are strongly encouraged to join your nearest one. [Package Mailing List](#) A list emailed out either daily, weekly or monthly containing the latest changes to the archive. [HP-UX System Administrators Mailing List](#) An e-mail discussion list that covers general HP-UX administration as well as the installation and running of packages. [Local information](#) about this site and pointers to related projects.

Locator: Home > Catalogue > HP-UX  
Alphabetical Package Index

**Search for a package**

Package name  
 Description  
 Author

Search Term:

Case Sensitive



HP-UX 11i v3 (HP-UX 11.31) Itanium 2	HP-UX 11i v2 (HP-UX 11.23) Itanium 2	HP-UX 11i v2 (HP-UX 11.23) PA-RISC 2.0	HP-UX 11i v1 (HP-UX 11.11) PA-RISC 2.0	HP-UX 11.00 PA-RISC 1.1	All HP-UX Releases
<a href="#">A</a> <a href="#">B</a> <a href="#">C</a> <a href="#">D</a> <a href="#">E</a> <a href="#">F</a> <a href="#">G</a> <a href="#">H</a> <a href="#">I</a> <a href="#">J</a> <a href="#">K</a> <a href="#">L</a> <a href="#">M</a> <a href="#">N</a> <a href="#">O</a> <a href="#">P</a> <a href="#">Q</a> <a href="#">R</a> <a href="#">S</a> <a href="#">T</a> <a href="#">U</a> <a href="#">V</a> <a href="#">W</a> <a href="#">X</a> <a href="#">Y</a> <a href="#">Z</a> <a href="#">Other</a>	<a href="#">A</a> <a href="#">B</a> <a href="#">C</a> <a href="#">D</a> <a href="#">E</a> <a href="#">F</a> <a href="#">G</a> <a href="#">H</a> <a href="#">I</a> <a href="#">J</a> <a href="#">K</a> <a href="#">L</a> <a href="#">M</a> <a href="#">N</a> <a href="#">O</a> <a href="#">P</a> <a href="#">Q</a> <a href="#">R</a> <a href="#">S</a> <a href="#">T</a> <a href="#">U</a> <a href="#">V</a> <a href="#">W</a> <a href="#">X</a> <a href="#">Y</a> <a href="#">Z</a> <a href="#">Other</a>	<a href="#">A</a> <a href="#">B</a> <a href="#">C</a> <a href="#">D</a> <a href="#">E</a> <a href="#">F</a> <a href="#">G</a> <a href="#">H</a> <a href="#">I</a> <a href="#">J</a> <a href="#">K</a> <a href="#">L</a> <a href="#">M</a> <a href="#">N</a> <a href="#">O</a> <a href="#">P</a> <a href="#">Q</a> <a href="#">R</a> <a href="#">S</a> <a href="#">T</a> <a href="#">U</a> <a href="#">V</a> <a href="#">W</a> <a href="#">X</a> <a href="#">Y</a> <a href="#">Z</a> <a href="#">Other</a>	<a href="#">A</a> <a href="#">B</a> <a href="#">C</a> <a href="#">D</a> <a href="#">E</a> <a href="#">F</a> <a href="#">G</a> <a href="#">H</a> <a href="#">I</a> <a href="#">J</a> <a href="#">K</a> <a href="#">L</a> <a href="#">M</a> <a href="#">N</a> <a href="#">O</a> <a href="#">P</a> <a href="#">Q</a> <a href="#">R</a> <a href="#">S</a> <a href="#">T</a> <a href="#">U</a> <a href="#">V</a> <a href="#">W</a> <a href="#">X</a> <a href="#">Y</a> <a href="#">Z</a> <a href="#">Other</a>	<a href="#">A</a> <a href="#">B</a> <a href="#">C</a> <a href="#">D</a> <a href="#">E</a> <a href="#">F</a> <a href="#">G</a> <a href="#">H</a> <a href="#">I</a> <a href="#">J</a> <a href="#">K</a> <a href="#">L</a> <a href="#">M</a> <a href="#">N</a> <a href="#">O</a> <a href="#">P</a> <a href="#">Q</a> <a href="#">R</a> <a href="#">S</a> <a href="#">T</a> <a href="#">U</a> <a href="#">V</a> <a href="#">W</a> <a href="#">X</a> <a href="#">Y</a> <a href="#">Z</a> <a href="#">Other</a>	<a href="#">A</a> <a href="#">B</a> <a href="#">C</a> <a href="#">D</a> <a href="#">E</a> <a href="#">F</a> <a href="#">G</a> <a href="#">H</a> <a href="#">I</a> <a href="#">J</a> <a href="#">K</a> <a href="#">L</a> <a href="#">M</a> <a href="#">N</a> <a href="#">O</a> <a href="#">P</a> <a href="#">Q</a> <a href="#">R</a> <a href="#">S</a> <a href="#">T</a> <a href="#">U</a> <a href="#">V</a> <a href="#">W</a> <a href="#">X</a> <a href="#">Y</a> <a href="#">Z</a> <a href="#">Other</a>
<a href="#">All</a> (Total: 302)	<a href="#">All</a> (Total: 302)	<a href="#">All</a> (Total: 362)	<a href="#">All</a> (Total: 360)	<a href="#">All</a> (Total: 363)	<a href="#">All</a> (Total: 1369)
					<a href="#">All</a> (Total: 2233)

### Search for a package

- Package name  
 Description  
 Author

Search Term

- Case Sensitive

Locator: Home > Catalogue > gtk+-1.2.10

#### gtk+-1.2.10 Gimp ToolKit for creating graphical user interfaces

**Description:**

It is similar to the look and feel of Motif, but designed to be small and efficient. GTK allows the programmer to use a variety of standard user interface widgets such as push, radio and check buttons, menus, lists and frames. It also provides several container widgets which can be used to control the layout of the user interface elements. Note that this is a stable release and requires the equivalent stable release of glib plus the gettext and libiconv packages to be installed.

**Author:**

Peter Mattis, Spencer Kimball and Josh MacDonald <[gtk-bugs@gtk.org](mailto:gtk-bugs@gtk.org)>

**Home URL:**

<http://www.gtk.org/>

**License:**

GNU General Public License V2

**Installation Tree:**

/usr/local

**Languages used:**

C

**Build-time dependencies:**

gettext glib libiconv make

**Run-time dependencies:**

gettext glib libiconv

**Documentation:**

[Installation README Man Page](#)

#### Downloads for gtk+-1.2.10 (Help!)

Operating System	Architecture	Package Type	Package Size	Date Archived	View Contents?	Download
HP-UX 11i v3 (HP-UX 11.31)	Itanium 2	Gzipped Binary Depot	4.64 MB	24 Apr 2007	No	<a href="#">▶ [HTTP]</a> <a href="#">▶ [FTP]</a>
HP-UX 11i v2 (HP-UX 11.23)	Itanium 2	Gzipped Binary Depot	4.64 MB	24 Apr 2007	No	<a href="#">▶ [HTTP]</a> <a href="#">▶ [FTP]</a>
HP-UX 11i v1.6 (HP-UX 11.22)	Itanium 1 or 2	Gzipped Binary Depot	8.10 MB	24 Jun 2003	No	<a href="#">▶ [HTTP]</a> <a href="#">▶ [FTP]</a>
HP-UX 11i v1.5 (HP-UX 11.20)	Itanium 1 or 2	Gzipped Binary Depot	9.63 MB	14 Jun 2002	No	<a href="#">▶ [HTTP]</a> <a href="#">▶ [FTP]</a>
HP-UX 11i v3 (HP-UX 11.31)	PA-RISC 2.0	Gzipped Binary Depot	2.37 MB	24 Apr 2007	No	<a href="#">▶ [HTTP]</a> <a href="#">▶ [FTP]</a>
HP-UX 11i v2 (HP-UX 11.23)	PA-RISC 2.0	Gzipped Binary Depot	2.37 MB	24 Apr 2007	No	<a href="#">▶ [HTTP]</a> <a href="#">▶ [FTP]</a>
HP-UX 11i v1 (HP-UX 11.11)	PA-RISC 2.0	Gzipped Binary Depot	2.37 MB	24 Apr 2007	No	<a href="#">▶ [HTTP]</a> <a href="#">▶ [FTP]</a>

# Compilers used for the archive

- Prior to November 2006, gcc was used.
- Since then, HP C/aC++ has been used.
- Primary reason is performance.
- Fringe benefit is compatibility and testing.

# GNU compiler collection for HP-UX 11i

- GCC packages for HP-UX 11i including integrity are also available from HP's DSPP at: <http://www.hp.com/go/gcc/>
- GNU binutils package now bundled with the gcc compiler for HP-UX
- Details on HP web page: <http://www.hp.com/go/gcc>
- HP contact for gcc related questions or issues is: [gcc-help@cup.hp.com](mailto:gcc-help@cup.hp.com)

# HP WDB for HP-UX 11i

- HP-UX primary debugger, WDB is HP supported implementation of the open source gdb debugger and follows open source licensing rules
- Includes enhancements for HP-UX, is delivered as part of HP's Fortran, C and C++ product offerings
- HP WDB is also available as free downloads from HP at: <http://www.hp.com/go/wdb>
- HP debugger contact is [wdb-help@cup.hp.com](mailto:wdb-help@cup.hp.com)

# HP Caliper for HP-UX 11i

- HP Caliper is the primary Integrity performance tool available for HP-UX and Linux. It is not open source. But it can be used with code compiled with gcc.
- HP Caliper is available as a free download from HP at: <http://www.hp.com/go/caliper>
- HP Caliper contact is [caliper-help@cup.hp.com](mailto:caliper-help@cup.hp.com)

# Eclipse integrated development environment



- Eclipse is the open, extensible IDE framework based on plug-in tooling architecture
- Is a vendor-neutral universal platform for integrating development environments
- Built by a community of tool providers using an Open Source development model
- Eclipse is available for free on HP-UX as part of Internet Express product and on the web at: <http://software.hp.com>
- Basis of IDE for C/C++ developers on HP-UX
- HP C/C++ remote developer plug-in for Eclipse available at: <http://software.hp.com>

# Eclipse Europa



- Eclipse 3.3
  - Released on other platforms on June 2007.
  - Release date for HP-UX is TBD.
- Europa
  - Simultaneous release of twenty one projects.
  - We are not testing nor supporting all projects on HP-UX.

# HP-UX Open Source resource summary

- HP-UX open source home, for news and resources –
  - [www.hp.com/go/hpuxopensource](http://www.hp.com/go/hpuxopensource)
- Software Depot Home
  - <http://software.hp.com/>
- Developer and Solution Partner Program home
  - <http://www.hp.com/dspp/>
- HP-UX Porting and Archive Center
  - <http://hpux.connect.org.uk/>
- Customer feedback encouraged:
  - Internet Express [hpux.iexpress@hp.com](mailto:hpux.iexpress@hp.com)
  - HP-UX porting and archive center [hp-ux@connect.org.uk](mailto:hp-ux@connect.org.uk)
  - HP GNU Compiler Collection (gcc) [gcc-help@cup.hp.com](mailto:gcc-help@cup.hp.com)
  - HP WDB debugger [wdb-help@cup.hp.com](mailto:wdb-help@cup.hp.com)
  - HP C/C++ remote developer plug-in for eclipse [eclipse-remotedevplugin@hp.com](mailto:eclipse-remotedevplugin@hp.com)



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