

HP Solaris-to-HP-UX Porting Kit

Frequent Asked Questions

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Introduction

This document provides answers to some frequently asked questions on the Solaris-to-HP-UX-Porting-Kit (SHPK). The SHPK product includes a migration cum user's guide. In addition, the product also includes release notes and man pages.

SHPK provides a migration path for Solaris applications with minimal porting overheads. SHPK includes wrapper library of APIs, header files, useful developer tools, and scanner tools, to find and address porting issues.

Frequently asked Questions

Pricing, Availability, Platforms

1. How is SHPK priced? What are the licensing schemes?

SHPK is positioned as a useful toolkit to easily migrate Solaris applications to HP-UX. Usage of SHPK is free and restricted to HP's Integrity and PA-RISC servers.

2. What HP-UX versions are supported by SHPK?

Currently, SHPK is supported on HP-UX 11i v2 on Integrity and PA-RISC platforms. Please see the SHPK web site for latest information on supported Linux distributions.

3. What compilers are supported by SHPK?

Currently SHPK supports the HP aCC compiler. Support for GNU compiler is planned for in the upcoming releases. Please see the SHPK web site for latest information on compilers supported by SHPK.

Product Support, updates

4. Are there any risks involved?

SHPK is a fully supported product from HP. It undergoes the rigorous quality checks that you expect in a HP product and is built for enterprise applications.

5. What and how much is the support contract? How many years is the support? Can customer call someone if there is a bug/crash?

Support for SHPK (during migration) can be obtained by contacting the SHPK team at slpk.support@hp.com. In addition, support contracts for post-migration can be obtained through the normal channels. Please contact the SHPK team for the latest information on SHPK support.

6. Is there an external webpage for SHPK - where customer can log in any of the problems or seek more info?

Information on SHPK will be available from the relevant external web pages of HP. In particular information will be available at software.hp.com and DSPP – <http://www.hp.com/go/SHPK>

7. Do you have any upgrades to the tool? Are they free or the customer needs to purchase them?

SHPK is a supported product and will be updated regularly. Updates to SHPK are available to customers under the same terms as the initial versions of SHPK.

Typically, once an application has been ported to HP-UX using SHPK, no SHPK updates are required for that application. When the application is changed to include additional features, or to support a later HP-UX distribution, it is advisable to use a later version of SHPK.

8. Is there a roadmap that can be shared with the customer?

SHPK product roadmap can be shared with select customers under Non-Disclosure Agreements.

Features, Components

9. What are the components of SHPK?

The SHPK User Guide describes the components of SHPK in detail. In summary, SHPK consists of two major components:

- Migration Environment (ME) – Header Files, Libraries, Compiler drivers, Make tool
- Source scanner

HP recommends the usage of Solaris-to-HP-UX Software Transition Kit

(<http://www.hp.com/go/STK>) for a detailed assessment of changes required to migrate from Solaris to HP-UX.

10. Does SHPK translate code or modify the code?

SHPK is not a translator. To migrate code using SHPK, the SHPK Migration Environment (ME) is included during the compilation of the source code. (Please refer to SHPK documentation for details on compiling with SHPK.) The Migration Environment handles majority of the system level differences between Solaris and HP-UX.

11. How does the ME handle all the differences between Solaris and HP-UX?

The main portion of ME is the set of header files and libraries containing the 'Solaris-like' implementation of commonly used APIs that are different between Solaris and HP-UX. By including the ME during compilation, these header files and libraries are used instead of the system files and provide the Solaris semantics expected by the application. As this happens during compilation, there are no changes to the source code.

12. Do I have to modify my source code to use the Migration Environment?

No. You only need to modify the make procedure. (Please refer to SHPK documentation for details on compiling with SHPK.)

13. Does the ME address all the differences between Solaris and HP-UX?

SHPK addresses more than 90% of the source code changes required to port applications from Solaris to HP-UX. A few changes (usually less than 10%) need to be performed manually.

Licensing, derived works

14. Is SHPK distributed under GPL or LGPL?

No. SHPK is distributed under a HP proprietary license. The SHPK Migration Environment – particularly the header files and libraries, the source scanner, etc. are HP proprietary code. Some minor utilities included in SHPK are derived from open source code and are licensed under GPL. However, using these utilities does not taint the application source code that is being compiled.

15. Does the usage of SHPK require the application to be open source?

No. The application can continue in the existing license model.

Miscellaneous features

16. Does it help in porting multi-threaded applications?

Applications using threads – both POSIX and Sun native – can be ported from Solaris to HP-UX using SHPK.

17. Does it also migrate Shell scripts (ksh, bash, csh, sh)?

SHPK provides versions of csh and sh that provide the Solaris behaviour of these two shells on HP-UX. Shell scripts written for csh and sh benefit from these versions. However, SHPK does not provide tools to address the differences in OS commands.

18. Does it port Make files (nmake, Solaris Make, gmake)?

SHPK provides tools to modify makefiles to address differences between Solaris and HP-UX, as well as to include SHPK in the build process.

For More Information

The SHPK product includes a migration cum user's guide. In addition, the product also includes release notes and man pages. For more information on SHPK, contact your nearest HP sales representative. Alternatively, write to HP's SHPK team at slpk.support@hp.com.