

HEWLETT-PACKARD

Migration to the HP 3000 Series 930 or Series 950

From Other HP 3000 Computer Systems

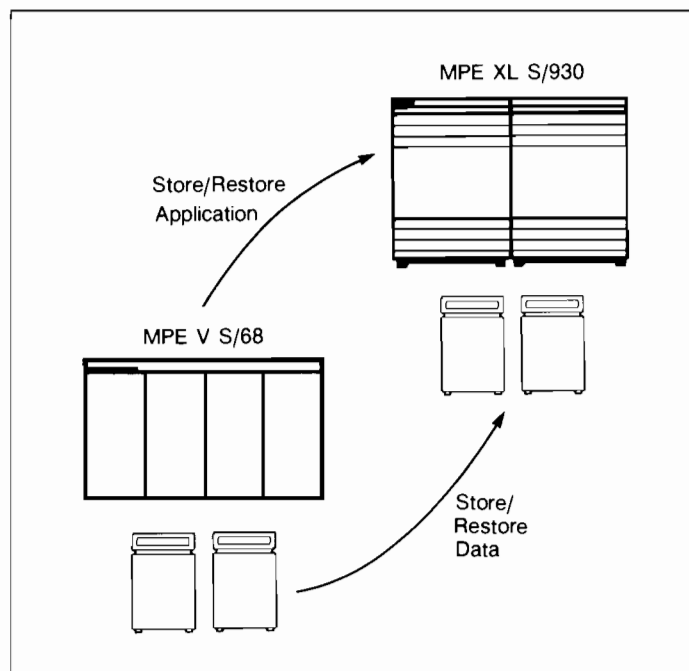
A Compatible Migration Path

Migration to HP 3000 Series 930 or Series 950 systems is based on full compatibility with the rest of the HP 3000 family. This compatible migration path protects your investment in HP 3000 hardware and software and provides you with a painless growth path to the high performance and capabilities of the 900 Series.

Key Features

Object Code Compatibility

HP 3000 Series 930 and Series 950 systems have a run-time environment known as "Compatibility Mode" which allows customer developed object code from the rest of the HP 3000 family to run on 900 Series systems. Consequently, no changes are required to move these applications and data from existing HP 3000s to new 900 Series systems.

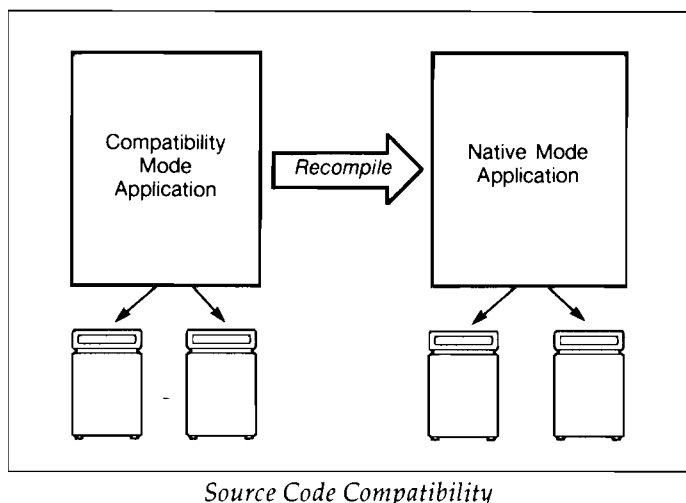


Object Code Compatibility

Source Code Compatibility

HP 3000 Series 930 and Series 950 systems have a second environment known as "Native Mode" which allows efficient accessing of the full power of the 900 Series new architecture. An existing application can be easily recompiled to Native Mode because new 900 Series compilers have been designed to have source code compatibility with the rest of the HP 3000 family. These compilers will be available for HP FORTRAN 77/XL, COBOL II/XL, HP Business BASIC/XL, HP Pascal/XL, C/XL, Transact/XL, and RPG/XL.





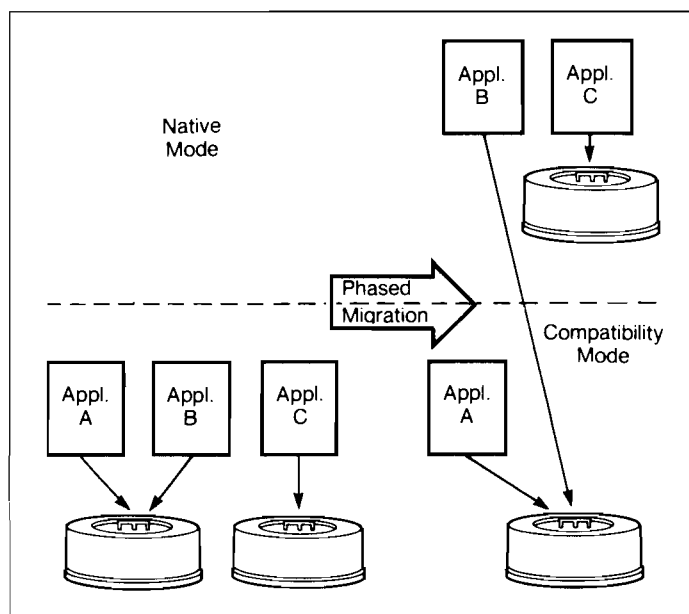
Source Code Compatibility

Database Compatibility

TurboIMAGE applications and databases can be moved to Compatibility Mode on 900 Series systems without modification or recompilation. For improved performance, applications can be recompiled to Native Mode. Optimum performance can be attained by moving to the HPIMAGE interface of ALLBASE, the new Native Mode database management system for the 900 Series. In most cases, TurboIMAGE applications may be moved to HPIMAGE without source changes.

Phased Migration

Once running in Compatibility Mode, applications can be recompiled into Native Mode in phases, at your convenience; they do not have to migrate all at once. Applications running in Native Mode can continue to share databases with applications running in Compatibility Mode. These modes are transparent to users and are switched automatically by MPE XL.



Network Compatibility

HP 3000 Series 930 and Series 950 systems can communicate transparently with other HP 3000s in a network via Network Services/3000 over an 802.3 Local Area Network.

Cross Development

You can develop applications on a 900 Series system for use on other HP 3000 systems, allowing the use of a 900 Series system for centralized application development. Applications can be developed in any of the following languages.

MPE V and Compatibility Mode HP 3000 Languages	MPE XL and Native Mode HP 3000 Languages
COBOL II/V	COBOL II/XL
HP Pascal/V	HP Pascal/XL
HP FORTRAN/V	
HP FORTRAN 77/V	HP FORTRAN 77/XL
HP BASIC/V	
HP Business BASIC/V	HP Business BASIC/XL
RPG/V	RPG/XL
C*	C/XL
SPL/V	
Transact/V	Transact/XL
* Third Party Solution	

VPLUS Compatibility

Applications using VPLUS screens can operate in Compatibility or Native Mode.

Operational Compatibility

The MPE XL operating system is a compatible superset of MPE V/E, providing 900 Series systems managers, operators and users with the same operating environment they're used to on existing HP 3000s. Consequently, only minimal retraining is required to learn additional functionality and ease of use features of MPE XL.

Exceptions

Privileged Mode

Applications which use undocumented intrinsics, execute in privileged mode, call routines that require privileged mode or use privileged machine instructions will need to be modified when moved to a 900 Series system.

SPL

Applications which are written in SPL can migrate to the 900 Series and run in Compatibility Mode. However, SPL applications cannot be recompiled into Native Mode due to SPL's close dependence on the MPE V based HP 3000 architecture. If Native Mode performance is required, these applications should be rewritten in HP Pascal/XL or C/XL. If an application written in a high level language calls SPL procedures, it can still be recompiled into Native Mode and call the procedures in Compatibility Mode via a user-supplied mode-switching procedure.

For additional, less frequently encountered exceptions, please see your Sales Representative.

System Requirements

Any HP 3000 system can upgrade to a 900 Series system. Even the discontinued Series II, Series III, Series 30 and Series 33 systems can upgrade to 900 Series systems. However, these will require some assistance from your HP service team.

Because of the amount of time it takes us to integrate and test our numerous peripherals, compilers, and software applications, all of these products will not be supported at first shipment of the 900 Series. Please contact your Sales Representative for the HP applications and peripherals currently supported.

Migration Tools

Even with the very high level of compatibility between MPE V based HP 3000s and the 900 Series, migration tools will be available to ease planning and implementation. Some of these can be used on existing MPE V based HP 3000s in advance of receiving a 900 Series system.

The following tools are included with the Fundamental Operating System.

- **Object Code Translator** — To improve applications' performance within Compatibility Mode by up to 15%.
- **Switch Assist Tool** — To help customers develop mode-switching procedures so that applications which have been recompiled into Native Mode will be able to continue to call user-supplied SPL procedures in Compatibility Mode.
- **Directory Migration Tool** — To move a system's accounting structure and system tables to a 900 Series system.

- **Floating Point Conversion Intrinsic** — The optional floating point Coprocessor on the 900 Series for Native Mode floating point operations is based on the IEEE floating point standard. MPE V HP 3000 floating point data will be handled by software on the 900 Series. An intrinsic is provided to help customers convert from MPE V HP 3000 format to the IEEE format if it is desired.

The following tools are included with ALLBASE, the Native Mode database management system on the 900 Series which includes HPIMAGE.

- **DBMIGRATE** — To convert TurboIMAGE databases to HPIMAGE format when moving to this Native Mode database management system.
- **TurboWindow** — A software environment for integrating TurboIMAGE applications with the HPIMAGE interface of ALLBASE.
- **DBSTRAN** — To convert TurboIMAGE schemas into HPIMAGE format when moving databases to the Native Mode HPIMAGE format.

Migration Consulting Services

Migration consulting services are available for those wishing individual advice on planning and implementing a migration. A migration trained Software Engineer will help you evaluate resource requirements, qualify applications for migration and establish a schedule for migration efforts. Using special migration tools, the Software Engineer will then help with the actual migration of your applications. Additionally, HP will assist customers with Series II/III/30/33 systems in moving to 900 Series systems.

Migration Literature

HP 3000 Systems: Migrating to the 900 Series — Introduction to the migration process. Available spring 1986.

Migration Overview Manual — Overview of migration and step-by-step explanation. Available summer 1986.

Migration Manual Series — Individual, detailed manuals covering each aspect of migration. Available at first shipment.

Series 930 Update to the HP 3000 System Configuration Guide — Contains information regarding peripheral support on the Series 930. Available now.

NOTICE

The information contained in this document is subject to change without notice. Consult your sales representative for the most current information.

