FUJITSU TECHNOLOGY SOLUTIONS

Release Notice PCMX (HPUX) V6.0A

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1 General

The file contains important information which is not noted in the manuals for using PCMX V6.0 in the HPUX operating system.

The release level is that of: June 2009.

1.1 Documentation

You receive the following manuals when you order the documentation

package:

Betrieb und Administration CMX V6.0, German/deutsch Benutzerhandbuch
Order No./Best.Nr.: U20871-J-Z145-2

Anwendungen programmieren CMX V6.0, German/deutsch
Programmierhandbuch
Order No./Best.Nr.: U41136-J-Z145-3

Programming Applications CMX V6.0, English/englisch Programmer
Reference Guide
Order No./Best.Nr.: U41136-J-Z145-3-76

The documentation is available in the form of online manuals at
http://manuals.ts.fujitsu.com or can be ordered in the form of
printed manuals for an additional payment at http://manualshop.
ts.fujitsu.com.

2 Notes on product use

2.1 Software/hardware configuration

2.1.1 Operating system

The following operating system versions are required for using
PCMX(HPUX) V6.0:

Operating system		Version
HP-UX	PA RISC	from 11iV1
HP-UX	Itanium	from 11.23

2.2 Resource requirements

PCMX V6.0A requires the following hard disk space:

Package	/etc	/usr	/opt
PCMX	~4 KB	~0,7 MB	~1,5 MB

Main memory requirement of the ICMX(L) library:

Text segment	Initialized data/processes	Not initialized (bss) data/processes
~400 KB	~30 KB	~4 KB

The ICMX library is a "shared library". The text segment therefore
is present only once in the main memory.

2.3 Product installation/configuration

2.3.1 Installing PCMX (HPUX)

PCMX (HPUX) uses swinstall for installation.

The description contains the <package> for the PCMX (HPUX) package

that you received (for example, CMX.tape). If you renamed the
package, you must use the new file name.

For an installation or update, root rights are required.

New installation:
   swinstall -s `pwd`/CMX.tape target_type=TAPE CMX

Update from an earlier version:
   Please uninstall the old package first and than install the
   new package.

2.3.2 Uninstalling PCMX(HPUX)

Uninstalling CMX(HPUX):
   swremove CMX

2.4 Notes on product operation

2.4.1 Limit values

Max. number of ICMX applications per processes	1,024
Max. number of TVs (TCEPs) per ICMX application	1,024
Max. number of RFC1006 connections per ICMX application	1,024

2.5 Obsolete and discontinued functions

2.6 Incompatibilities

2.6.1 Source programs

The CMX library is available as a shared object. This means that
your programs will automatically use the new CMX library without
having to be relinked after a new CMX version has been installed.

2.6.2 Application Development

PCMX Applications must also be linked to xnet (linking option
-lxnet). PCMX uses POSIX sockets. Without -lxnet the linker links the
HP specific socket library that is not compatible, especially for
64-Bit applications. Indication: t_getname() is not working because
t_accept() returns zero for the length of the peers address.

2.7 Restrictions

The CMXINIT option "-s" and "-S sig" are not supported.

2.8 Additions to the manual

COMM-CD-PCMX_06.2009\Documents\manual_changes_en.txt

2.9 Miscellaneous information

2.9.1 Compiling and linking PCMX applications

The README file under /opt/lib/cmx/demo/cmxDe contains information about compiling and linking PCMX applications.

2.9.2 New functions

IPv6:
The extended addressing over the IPv6 stack is supported.
t_setaddrpart() extended to set the scope id.yy

Multithreaded functions:
The CMX-lib is thread save since the version 6.0. The calls to the CMX-lib can be made from different, maybe competing threads. For it is necessary to use the CMX-functions of the library libpthreadcmx.so when creating applications.

3 Changes to previous PCMX Version

3.1 Connection to the own Process

Connections can be set up to the own process.

3.2 TNS-Tools tnsxdel and tnsxnames

This two CMX tools are now deployed with PCMX. They are documented in CMX manuals.

3.3 Ipv6: Link-local addresses

PCMX supports link-local addresses in the IPv6-stack.

3.4 HP-UX with Itanium Processor

PCMX was produced for PA-Risc processor. It runs also on HP-UX (IA64) using the ARIES emulation software (see also http://docs.hp.com/en/B9106-90003/ch08s07.html).
The installation of PCMX 6.0A10 on HP-UX (IA64) was restricted in the Product Specification File. This restriction is now removed.

3.5 64-Bit Version (-lxnet)

The 64 bit libraries are now working without any restrictions, if the CMX application is linked with -lxnet. Also 32-bit applications should be linked with -lxnet, but it work also without this library.
PCMX uses POSIX socket calls. Per default HP-UX links a HP specific socket library that is not POSIX compliant.