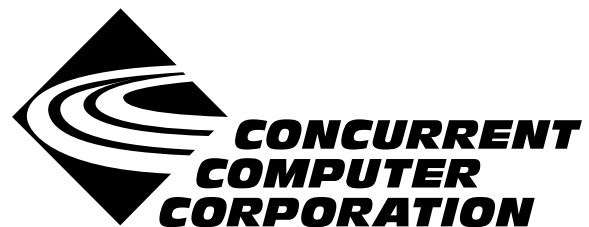


NightBench

Version 2.3 Release Notes (Linux)

July 2002

0898514-2.3



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1.0. Introduction

NightBench™ is part of the PowerWorks™ Linux Development Environment (PLDE) and is a graphical user interface for developing software with the Concurrent MAXAda™ and C/C++ compiler toolsets for Concurrent computers running under PowerMAX OS.

NightBench provides a common work environment for the PowerWorks Linux Development Environment editor, compilers, and development tools. NightBench organizes all of the information required for the development of PowerMAX OS applications, ensures consistent, repeatable builds, and provides an efficient interface for editing, browsing, building, and debugging.

2.0. Documentation

Table 2-1 lists the NightBench 2.3 documentation available from Concurrent.

Table 2-1. NightBench Version 2.3 Documentation

Manual Name	Pub. Number
<i>NightBench User's Guide</i>	0890514-070
<i>NightBench Version 2.3 Release Notes (Linux)</i>	0898514-2.3

Copies of the Concurrent documentation can be ordered by contacting the Concurrent Software Support Center. The toll-free number for calls within the continental United States is 1-800-245-6453. For calls outside the continental United States, the number is 1-954-283-1822 or 1-305-931-2408.

Additionally, the manuals listed above are available:

- online using the PowerWorks Linux Development Environment utility, **nhelp**
- in PDF format in the **documentation** directory of the PLDE Installation CD
- on the Concurrent Computer Corporation web site at www.ccur.com

3.0. Prerequisites

Prerequisites for NightBench Version 2.3 for both the host system and target system are as follows:

3.1. Host System

3.1.1. Software

- Red Hat® Linux*
- Required capabilities

NOTE

The following capabilities are normally installed as part of the standard installation of Red Hat Linux and the PowerWorks Linux Development Environment. During installation of the PLDE, the user will be notified if required capabilities do not exist on the Linux system.

- PowerWorks Linux Development Environment

Capabilities	RPMs providing these capabilities
<code>ccur-HyperHelp</code> <code>ccur-HyperHelp-scripts</code> <code>ccur-ktalk</code> <code>ccur-ndedit</code> <code>ccur-nhelp</code> <code>ccur-nterm</code>	<code>ccur-x11progs-6.4.2-003</code> <code>ccur-HyperHelp-scripts-6.4.2-002</code>

If using NightBench for Ada program development, the following capabilities are also required:

Capabilities	RPMs providing these capabilities
<code>plde-MAXAda</code>	<code>plde-MAXAda-3.3.2-001-1</code>

If using NightBench for C/C++ program development, the following capabilities are also required:

Capabilities	RPMs providing these capabilities
<code>plde-c++</code>	<code>plde-c++-5.3-003-1</code>

* This product has been extensively tested on Red Hat Linux 7.1 and 7.2. However, this product has not been tested with versions of Linux supplied by other vendors.

- Red Hat Linux

Capabilities	RPMs providing these capabilities
/bin/sh ld-linux.so.2 libICE.so.6 libSM.so.6 libX11.so.6 libXext.so.6 libXmu.so.6 libXp.so.6 libXt.so.6 libc.so.6 libc.so.6(GLIBC_2.0) libc.so.6(GLIBC_2.1) libdl.so.2 libm.so.6 libm.so.6(GLIBC_2.0) libm.so.6(GLIBC_2.1) libnbccommon.so libstdc++-libc6.1-1.so.2 libutil.so.1 libutil.so.1(GLIBC_2.0)	<i>Red Hat 7.1:</i> bash-2.04-21 compat-glibc-6.2-2.1.3.2 compat-libstdc++-6.2-2.9.0.14 glibc-2.2.4-19.3 XFree86-libs-4.1.0-15 <i>Red Hat 7.2:</i> bash-2.05-8 compat-glibc-6.2-2.1.3.2 compat-libstdc++-6.2-2.9.0.16 glibc-2.2.4-13 XFree86-libs-4.1.0-3

If using NightBench for Ada or C/C++ program development, the following capabilities are also required:

Capabilities	RPMs providing these capabilities
rpm >= 3.0.3	<i>Red Hat 7.1:</i> rpm-4.0.2-8 <i>Red Hat 7.2:</i> rpm-4.0.3-1.03

3.1.2. Hardware

- an Intel®-based PC - 300Mhz or higher (recommended minimum configuration)
- 64MB physical memory (recommended minimum configuration)

3.2. Target System

3.2.1. Software

- PowerMAX OS 4.3 or later

3.2.2. Hardware

- Computer Systems:
 - Power Hawk™ 620 and 640
 - Power Hawk 710, 720 and 740
 - PowerStack™ II and III
 - Night Hawk® Series 6000
 - TurboHawk™
 - PowerMAXION™
- Board-Level Products:
 - Motorola® MVME2604
 - Motorola MVME4604

4.0. System Installation

Installation of NightBench is normally done as part of the general installation of the PowerWorks Linux Development Environment software suite. A single command installs (or uninstalls) all software components of the PLDE, as described in the *PowerWorks Linux Development Environment Release Notes* (0898000).

The following section describes how to install (or uninstall) NightBench separately from the PLDE suite for those rare cases when this is necessary.

4.1. Separate Host Installation

In rare cases, it may be necessary to install (or uninstall) NightBench independent of the installation of the PowerWorks Linux Development Environment software suite. This may be done using the standard Linux product installation mechanism, `rpm` (see `rpm(8)`).

The names of the RPMs associated with NightBench 2.3 are:

```
plde-nbench
plde-nbench-ada
plde-nbench-c
```

and the files associated with these RPMs, respectively, are:

```
plde-nbench-2.3-000.i386.rpm
plde-nbench-ada-2.3-000.i386.rpm
plde-nbench-c-2.3-000.i386.rpm
```

which can be found in the `linux-i386` directory on the PowerWorks Linux Development Environment Installation CD.

NOTE

The user must be root in order to use the `rpm` product installation mechanism on the Linux system.

To install the NightBench RPMs, issue the following commands on your Linux system:

1. Insert the PowerWorks Linux Development Environment Installation CD in the CD-ROM drive
2. Mount the CD-ROM drive (assuming the standard mount entry for the CD-ROM device exists in `/etc/fstab`)

```
mount /mnt/cdrom
```

3. Change the current working directory to the directory containing the NightBench RPMs

```
cd /mnt/cdrom/linux-i386
```

4. Install the RPM

```
rpm -i plde-nbench-2.3-000.i386.rpm
```

For Ada program development under NightBench, issue the following command:

```
rpm -i plde-nbench-ada-2.3-000.i386.rpm
```

For C/C++ program development under NightBench, issue the following command:

```
rpm -i plde-nbench-c-2.3-000.i386.rpm
```

By default, the product is installed in `/usr/opt`.

5. Change the current working directory outside the `/mnt/cdrom` hierarchy

```
cd /
```

6. Unmount the CD-ROM drive (otherwise, you will be unable to remove the PowerWorks Linux Development Environment Installation CD from the CD-ROM drive)

```
umount /mnt/cdrom
```

To uninstall the language-specific portions of NightBench, issue the following commands:

To remove NightBench support for Ada program development:

```
rpm -e plde-nbench-ada
```

To remove NightBench support for C/C++ program development::

```
rpm -e plde-nbench-c
```

To uninstall the base NightBench RPM, use the following command:

```
rpm -e plde-nbench
```

5.0. Changes in This Release

In addition to minor enhancements and maintenance, the following changes were made in NightBench 2.3.

5.1. Improved Diagnostics

NightBench 2.3 includes improvements to the diagnostic portion of the NightBench Builder window to remove extraneous white space for multi-line error messages.

5.2. Support for Red Hat 7.2

NightBench 2.3 no longer hangs when run on Red Hat 7.2.

6.0. Direct Software Support

Software support is available from a central source. If you need assistance or information about your system, please contact the Concurrent Software Support Center at 1-800-245-6453. Our customers outside the continental United States can contact us directly at 1-954-283-1822 or 1-305-931-2408. The Software Support Center operates Monday through Friday from 8 a.m. to 7 p.m., Eastern Standard time.

Calling the Software Support Center gives you immediate access to a broad range of skilled personnel and guarantees you a prompt response from the person most qualified to assist you. If you have a question requiring on-site assistance or consultation, the Software Support Center staff will arrange for a field analyst to return your call and schedule a visit.

