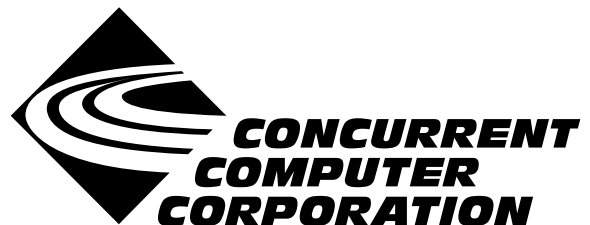


NightBench

Version 2.3.1 Release Notes (Linux)

November 2003

0898514-2.3.1



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1.0. Introduction

NightBench™ is a member of two parent software suites: MAXAda™ for RedHawk and the PowerWorks™ Linux Development Environment (PLDE). NightBench is a graphical user interface for developing software with the Concurrent MAXAda and C/C++ compiler toolsets. It supports developing Ada programs for Pentium-based computers running RedHawk Linux as well as Ada and C/C++ programs for PowerPC-based Concurrent computers running PowerMAX OS.

NightBench provides a common work environment for the editor, compilers, and development tools. NightBench organizes all of the information required for the development of 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 2.3.1 documentation available from Concurrent.

Table 2-1. NightBench Version 2.3.1 Documentation

Manual Name	Pub. Number
<i>NightBench User's Guide</i>	0890514-070
<i>NightBench Version 2.3.1 Release Notes (Linux)</i>	0898514-2.3.1

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 utility, **nhelp**
- in PDF format in the **documentation** directory of the Installation CD
- on the Concurrent Computer Corporation web site at www.ccur.com

3.0. Prerequisites

Prerequisites for NightBench Version 2.3.1 for both the host system and target system are as follows:

3.1. Host System

3.1.1. Software

- RedHawk Linux or Hat® Linux*
- Required capabilities

NOTE

The following capabilities are normally installed as part of the standard installation of the parent software suite, either MAX-Ada for RedHawk or the PowerWorks Linux Development Environment. During installation, the user will be notified if required capabilities do not exist on the Linux system.:

Capabilities	RPMs providing these capabilities
<code>ccur-HyperHelp</code> <code>ccur-HyperHelp-scripts</code> <code>ccur-ktalk</code> <code>ccur-nedit</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, one of the following capabilities are also required:

Capabilities	RPMs providing these capabilities
<code>ccur-MAXAda</code>	<code>ccur-MAXAda-i86_3.4-000-1</code>
<code>plde-MAXAda</code>	<code>plde-MAXAda-3.3.3-001-1</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 Hawk 1.4 and Red Hat Linux 8.0. However, this product has not been tested with versions of Linux supplied by other vendors.

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. RedHawk Linux Targets

3.2.1.1. Software

- RedHawk Linux 1.4 or later

3.2.1.2. Hardware

- Any Concurrent iHawk Series system

3.2.2. PowerMAX OS Targets

3.2.2.1. Software

- PowerMAX OS 4.3 or later

3.2.2.2. 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 parent software suite, either MAXAda for RedHawk or the PowerWorks Linux Development Environment.. A single command installs (or uninstalls) all software components of the parent suite, as described in the *MAXAda for RedHawk Release Notes* (0898537) or the *PowerWorks Linux Development Environment Release Notes* (0898000).

The following section describes how to install (or uninstall) NightBench separately from the parent 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 parent 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 2.3.1 are:

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

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

```
plde-nbench-2.3.1-000.i386.rpm
plde-nbench-ada-2.3.1-000.i386.rpm
plde-nbench-c-2.3.1-000.i386.rpm
```

which can be found in the **RPM** directory of the MAXAda for RedHawk Installation CD or 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 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/RPM
or
cd /mnt/cdrom/linux-i386
```

4. Install the RPM

```
rpm -i plde-nbench-2.3.1-000.i386.rpm
```

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

```
rpm -i plde-nbench-ada-2.3.1-000.i386.rpm
```

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

```
rpm -i plde-nbench-c-2.3.1-000.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 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 2.3.1.

5.1. Support for MAXAda for RedHawk

NightBench 2.3.1 supports developing Ada95 programs that will execute on computers running RedHawk Linux.

5.2. Integration with Understand for Ada

NightBench 2.3.1 provides minimal integration with *Understand for Ada*. *Understand for Ada* is an optional interactive development tool that provides reverse engineering, automated documentation, code navigation and comprehension, metrics and cross referencing. *Understand for Ada* can be launched from the NightBench Tools menu. Additionally, middle clicking a unit in NightBench's Units page will launch the *Understand For Ada* Info Browser for the selected unit, assuming that *Understand for Ada* has already be launched and is opened with an project file associated with the Ada environment..

Additional integration is anticipated in a future release.

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.

