AXI for MAXAda for RedHawk

Version 3.5 Release Notes

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concurrent

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Contents

1.0 Introduction 1

2.0 Documentation 2

3.0 Prerequisites 3

3.1 Host System 3

3.1.1 Software 3

3.1.2 Hardware 4

3.2 Target System 4

3.2.1 Software 4

3.2.2 Hardware 4

4.0 System Installation 5

5.0 Known Issues 6

6.0 Direct Software Support 7

1.0. Introduction

AXI™ for MAXAda™ for RedHawk™ is the Ada X Interface for MAXAda. The Ada X Interface is an abstract Ada binding to the X™ Library (Xlib), the X Toolkit (Xt) and Motif™ (Xm). Using this interface, applications written in Ada targeting Concurrent iHawk computers running under RedHawk Linux may take advantage of the X library, the X Toolkit, and Motif.

2.0. Documentation

Table 2-1 lists the AXI for MAXAda for RedHawk 3.5 documentation available from Concurrent.

Table 2-1. AXI for MAXAda for RedHawk Version 3.5 Documentation

Manual Name	Pub. Number
AXI for MAXAda Reference Manual	0890518-000
AXI for MAXAda for RedHawk Version 3.5 Release Notes	0898539-3.5

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.

Additionally, the manuals listed above are available:

- online using the PowerWorks Linux Development Environment utility, **`nhelp`** (release notes only)
- on the Concurrent Computer Corporation web site at www.ccur.com

3.0. Prerequisites

Prerequisites for AXI for MAXAda for RedHawk Version 3.5 for both the host system and target system are as follows:

3.1. Host System

3.1.1. Software

- RedHawk™ Linux 1.4 or later *or* Red Hat® Linux*
- Required capabilities
  - MAXAda for RedHawk

NOTE

The following capabilities are normally installed as part of the standard installation of the MAXada for RedHawk product. During installation, the user will be notified if required capabilities do not exist on the Linux system.

Capabilities	RPMs providing these capabilities

`ccur-HyperHelp-scripts`
`ccur-MAXAda-i86_3.5`
`ccur-x11-6.4.2`
	`ccur-HyperHelp-scripts-6.4.2-002`
	`ccur-MAXAda-i86_3.5-000-1`
	`ccur-x11-6.4.2-006-1`

  - RedHawk Linux

NOTE

The following capabilities are normally installed as part of the standard installation of the RedHawk or Red Hat product. During installation, the user will not be notified if required capabilities do not exist on the Linux system, but user applications will fail to link if they utilize portions of Motif.

Capabilities	RPMs providing these capabilities
`openmotif`	`openmotif-2.2.2-12`

* This product has been extensively tested on RedHawk Linux 1.4, 2.1, 2.2 and Red Hat Linux 8.0, 9.0, and Enterprise 3.0. However, this product has not been tested with versions of Linux supplied by other vendors or on earlier versions of Red Hat Linux.

3.1.2. Hardware

- Any Pentium-based Concurrent iHawk system

3.2. Target System

3.2.1. Software

- RedHawk Linux 1.4 or later

3.2.2. Hardware

- Any Pentium-based Concurrent iHawk system

4.0. System Installation

Installation of AXI for MAXAda for RedHawk is accomplished using the standard Linux product installation mechanism, **rpm** (see **rpm(8)**).

The RPM name associated with AXI for MAXAda for RedHawk 3.5 is:

```
ccur-MAXaxi-i86_3.5
```

and the file associated with this RPM is:

```
ccur-MAXaxi-i86_3.5-000-1.i386.rpm
```

NOTE

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

To install the AXI for MAXAda for RedHawk RPM, 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 AXI for MAXAda for RedHawk RPM

   ```
   cd /mnt/cdrom
   ```

4. Install the RPM

   ```
   rpm -Uvh ccur-MAXaxi-i86_3.5-000-1.i386.rpm
   ```

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 AXI for MAXAda for RedHawk RPM, use the following command:

```
rpm -e ccur-MAXaxi-i86_3.5
```

5.0. Known Issues

Problems with AXI for MAXAda for RedHawk Version 3.5 will be addressed in patches to this release or may be corrected in a future release.

- The Version 3.5 release of AXI for MAXAda for RedHawk does not support Motif 1.2.
- The STARS Xt implementation is not complete. The STARS bindings should be used only for programming at the Xlib level.
- The Version 3.5 release of AXI for MAXAda for RedHawk supports Motif 2.1, but its use with openmotif version 2.2 RPMs have not shown any problems to date.
- Ada programs using the Motif bindings must not link with static versions of both **`-lXm`** and **`-lXmu`**. The **`openmotif`** version 2.2 RPMs have duplicate symbols in those two libraries and an attempt to link would result in multiple definitions.

  This is not a problem with default link rule:

  ```
  obj,ar-system,so
  ```

  which links system libraries dynamically when possible.

  Other alternatives that work are:

  ```
  obj,so,ar
  obj,ar--lXm,so
  obj,ar--lXmu,so
  ```

  One example that would not work is:

  ```
  obj,ar,so
  ```

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 our toll free number 1-800-245-6453. For calls outside the continental United States, the number is 1-954-283-1822. The Software Support Center operates Monday through Friday from 8 a.m. to 5 p.m., Eastern Standard Time. You may submit a request for assistance at any time by using the Concurrent Computer Corporation web site at http://www.ccur.com/isd_support_contact.asp.

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.