

# RealView® Development Suite v3.0

## ADS Software Archive Installation Guide for Windows, Sun Solaris, Red Hat Linux, and HP-UX

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### Release Information

The following changes have been made to this book.

#### Change History

Date	Issue	Change
December 2004	A	RVDS Release v2.2
March 2006	B	RVDS Release v3.0

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### Product Status

The information in this document is final, that is for a developed product.

### Web Address

<http://www.arm.com>

### Contents

Supported platforms .....	1
Installing ADS v1.2.1, ADS v1.1 or ADS v1.0.1 on Windows .....	2
Installing ADS v1.2.1 on Sun Solaris, Red Hat Linux, and HP-UX .....	5

## 1 Supported platforms

The ARM Developer Suite® (ADS) Software Archive is supported on:

- Microsoft Windows
- Sun Solaris
- Red Hat Linux
- Hewlett Packard HP-UX.

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### Note

ADS uses FLEXlm license management software. To use floating licenses, you must install, configure, and run the TCP/IP software on every relevant computer. In addition, you must use the FLEXlm version 9.0 or higher tools supplied in the top level `flexlm` directory of the ADS Software Archive CD. See the *ARM FLEXlm License Management Guide* for more information.

ARM® Limited does not support license servers on Windows 95, Windows 98, or Windows Me.

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To view the PDF versions of the online manuals you must have Adobe Acrobat Reader installed. Acrobat Reader is provided with ADS. The online manuals are also viewable in DynaText. The DynaText viewer is installed during the ADS installation.

### 1.1 Microsoft Windows

The ADS Software Archive is supported on Pentium IBM compatible machines running:

- Windows XP Professional (ADS v1.2.1 only)
- Windows 2000, Service Pack 1 or later (except for ADS v1.0.1)
- Windows NT, version 4
- Windows Me (ADS v1.2.1 only)
- Windows 98 SE
- Windows 95.

### 1.2 Sun Solaris

The ADS Software Archive is supported on Sun SPARC compatible machines running:

- Sun Solaris 2.6
- Sun Solaris 7
- Sun Solaris 8.

The CDE environment is required for correct operation of the AXD debugger.

### 1.3 Red Hat Linux

The ADS Software Archive is supported on Pentium IBM compatible machines running:

- Red Hat Linux 6.2
- Red Hat Linux 7.1.

Later versions of Red Hat Linux that do not use version 2.2.2 of glibc do not support AXD because of restrictions with third party porting software used.

### 1.4 Red Hat Linux

The ADS Software Archive is supported on HP workstations running:

- HP-UX 10.20
- HP-UX 11.

## 2 Installing ADS v1.2.1, ADS v1.1 or ADS v1.0.1 on Windows

You must have administrator privileges before installing the software. You must remove any other versions of ADS before installing a new version. In addition, it is recommended that you remove any previous versions of the ARM Software Development Toolkit (SDT).

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### Note

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RealView Development Suite (RVDS) v3.0 includes a SuiteSwitcher utility. This enables you to have RVDS and ADS installed on the same machine. However, you cannot use the SuiteSwitcher utility to switch between multiple installed versions of ADS.

For more details, see the downloads area on the ARM website <http://www.arm.com>.

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To install ADS v1.2.1, ADS v1.1, or ADS v1.0.1 on Windows:

1. Insert the CD into the CD-ROM drive. The autorun ADS v1.2.1 demonstration program starts.  
If the autorun demonstration does not start, execute the `setup.exe` program in the top-level directory of the CD-ROM.
2. To install ADS v1.2.1, click the **Install** button in the demo, then continue at step 4.
3. To install either ADS v1.1 or ADS v1.0.1:
  - a. Click the **Exit** button.
  - b. Click the **Exit** button again to end the demo.
  - c. Browse to the subdirectory of the ADS Software Archive CD, for the version of ADS you are installing:
    - `ADS_1_1`
    - `ADS_1_0_1`.
  - d. Double-click on `Setup.exe` to start the ADS installer.
  - e. Continue at step 5.
4. For ADS v1.2.1 only, if you have an earlier version of ADS on your PC, a dialog reminds you of this and waits for you to decide what to do. Click the **Yes** button to continue.
5. When the Welcome window is displayed, click **Next**.  
The license agreement window is displayed. To continue the installation process, you must accept the terms of the license agreement. Installation of ADS v1.2.1, v1.1, or v1.0.1 means that you accept the terms of the ARM License Agreement.
6. Click **Yes** to install the software.  
If you do not want to accept the terms of the ARM license click **No**. If you do not want to accept the terms of the ARM License you must not use ADS and you must return the software to the point of supply for a refund.  
If you accept the license agreement, the installer asks you to select a destination directory for your installation. If you want to accept the default destination, click **Next**. If you do not want to accept the default destination, click the Browse button to select the directory where you want the ARM Development Suite to be installed.
7. The Windows installer prompts you to select an installation type. If you select Custom as the type, it offers a choice of product components to install. If you select more components than you have room for on your disk, an error message is displayed. A series of dialogs are displayed giving you a choice for the program folder, and CodeWarrior IDE file associations. Accept the defaults or enter a new value. The installer displays the list of the settings chosen for this installation.
8. Click **Next** to start the installation, or if you want to change your settings, click **Back** and repeat step 7. After the software is copied to your disk, the ARM License Wizard is displayed:
  - If you have a license for RVDS v3.0, or for the version of ADS that you are installing, follow the steps described in *Node-locked licensing* on page 3. The installation then continues at step 9.
  - For all versions of ADS, if you have not received a license, click either the **Cancel** or **Close** button to exit the ARM License Wizard. The installation then continues at step 9.

When the installation completes, visit <https://www.license.arm.com> with your company details, HostID, product serial number and a return email address. To find out your HostID, change to the ADS Bin directory, and at the command prompt type:

```
lmutil lmhostid
```

When you receive your license run the ARM License Wizard to install it. See the *ARM FLEXlm License Management Guide* for more details.

9. The Windows installer automatically registers the OCXs that are required for the CodeWarrior IDE and AXD. This completes the installation of ADS.

As part of the registration of the OCX drivers, a new version of file `comctl32.dll` is installed if required. If the installer does this, you must reboot your workstation and the installer offers a reboot option at the end of installation. If you have to register the OCX drivers again (after moving them, for example), you can do so by running the batch file `register.bat` from the `\bin` subdirectory of the ADS installation directory.

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**Note**

Important additional information about this release is available in the `readme.txt` file in the ADS 1.2.1, 1.1 or 1.0.1 installation directory.

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## 2.1 Node-locked licensing

To install the license for your version of ADS, do the following:

- For ADS v1.2.1 only:
  1. Click the **Next** button in the ARM License Wizard.
  2. If you have received your license for RealView Development Suite version 3.0, select the **Install License** radio button.
  3. Click the **Next** button. Use the License Wizard to point to the location of the license file.
  4. Click the **Next** button. You are asked if you want to update your license.
  5. Click the **Next** button.
  6. Click the **Finish** button.

Now continue at step 9 of the procedure described in *Installing ADS v1.2.1, ADS v1.1 or ADS v1.0.1 on Windows* on page 2.

- For ADS v1.1 and ADS v1.0.1:
  1. Click on the **Browse** button in the Install Full License section, then point to the location of your license file.
  2. Click on the **Install Full** button.
  3. Click the **Close** button to close the ARM License Wizard. Disregard the information presented in the popup help window, because temporary licenses are not supplied.

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**Note**

Your RVDS v3.0 license also enables the license for ADS v1.2.1, ADS v1.1 and ADS v1.0.1.

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## 2.2 Floating License Management of ADS v1.2.1, ADS v1.1 or ADS v1.0.1 on Windows

To enable the ADS components (supplied as part of the RVDS package) with your RVDS license file, you must use version 9.0 or higher of the FLEXlm tools on your license server. This means that older versions of the `lmgrd` and `armlmd` daemons must be updated. The `lmutil` utility must also be updated.

New versions of the FLEXlm components for the supported license server platforms are supplied on the RVDS installation CD at the following location: `Utilities\FLEXlm\9.x\release`.

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**Note**

The existing license server process must be stopped when these changes are made, then restarted.

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To check whether you have to upgrade your license daemons, you can identify the version of an existing FLEXlm component on your license server. Change to the directory where your license tools are installed, then enter either the `lmutil` or `armlmd` command. The daemon reports a version number. In the following examples, the version number associated with `armlmd` is examined.

**Example 1**

```
C:\flexlm>lmutil lmver armlmd
lmutil - Copyright (c) 1989-2005 Macrovision Europe Ltd. and/or Macrovision
Corporation. All Rights Reserved.
FLEXnet Licensing v10.8.0.0 build 18869 (lmgr.lib), Copyright (c) 1988-2005
Macrovision Europe Ltd. and/or Macrovision Corporation. All Rights Reserved.
```

**Example 2**

```
C:\flexlm> armlmd -vsn
15:33:38 (armlmd) FLEXnet Licensing version v10.8.0 build 18869
15:33:38 (armlmd) Vendor daemons must be run by the license server manager
(lmgrd)
```

**2.3 Uninstalling ADS v1.2.1, ADS v1.1 or ADS v1.0.1**

This section describes how to remove ADS v1.2.1, v1.1 or v1.0.1 from your computer.

Before you uninstall ADS you must ensure that no component of it is running. Check your toolbar for any ADS program that might be running minimized and close it. You can then uninstall ADS in either of the following ways:

- Select **Start** → **Settings** → **Control Pane** → **Add/Remove Programs** → **ARM Development Suite**
- Run `setup.exe` from the top-level directory of the installation CD-ROM and select the Remove option on the first screen.

If you added any extra components by re-running the installer, they are also uninstalled. If you added extra files to the installation yourself (for example, by compiling the example programs) these are not uninstalled, but you can remove them manually.

**Note**

Uninstalling ADS does not remove the ADS binary directory from your PATH. You might want to reset your PATH manually.

During installation of ADS on a Windows 9x platform the `autoexec.bat` file is updated to set environment variables and to lengthen your PATH. When you uninstall these variables and paths are left in place.

Eventually, after a number of installs, the `autoexec.bat` file gets very large and on system boot the PC runs out of environment space, so can no longer register environment variables. To avoid this problem, you must manually edit your `autoexec.bat` file after uninstalling ADS from a Windows 9x computer, to remove the ADS-related commands.

### 3 Installing ADS v1.2.1 on Sun Solaris, Red Hat Linux, and HP-UX

This section describes how to install ADS v1.2.1 on Sun Solaris, Red Hat Linux, and HP-UX.

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#### Note

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The ADS Software Archive includes the full version of ADS v1.2.1 complete with an installer. Only the compilation tools and libraries for ADS v1.1 and v1.0.1 are provided, in the `ads_1_1` and `ads_1_0_1` directories, respectively. No installer is included for these older tools, so you must decide what components you require for which platforms and the location to copy them to.

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You must remove any previous versions of ADS before installing this version. In addition, it is recommended that you remove any previous versions of the ARM Software Development Toolkit (SDT). It is also recommended that you do not install the software as the root user.

By installing ADS you are accepting the terms of the ARM License Agreement. If you do not want to accept the terms of the ARM License Agreement you must not install or use ADS and you must return the software to the point of supply for a refund.

To install ADS v1.2.1:

1. Insert the CD into the CD-ROM drive.
2. Become superuser:
  - a. Type `su` at the shell prompt.
  - b. Enter the root password for your machine:  
 Password: `root_password`
3. Mount the CD by typing the appropriate one of the following commands:
  - on a Sun Solaris computer, type:  
`volcheck`
  - on a Red Hat Linux computer, type  
`mount cdrom-device`  
 For example:  
`mount /mnt/cdrom`
  - on an HP-UX computer, type:  
`mount -r -F cdfs -o cdcase cdrom-device /cdrom`  
 For example:  
`mount -r -F cdfs -o cdcase /dev/dsk/clt2d0 /cdrom`
4. Exit superuser mode:  
`exit`
5. Move to the appropriate CD-ROM directory:  
`cd /cdrom`
6. Run the install script:  
`sh install.sh`  
 Follow the install script prompts to install ADS.
7. You are then informed of the requirement to run the `usrsetup.sh` script file to set up the environment variables used by ADS and to register OCX controls (see the section that describes user setup and OCX registration in the *ADS Installation and License Management Guide*).
8. Depending on how you want to license your product, you might have to request a license for your system and set up a license server. If you have not done so already, visit <https://www.license.arm.com>, and specify your with your company details, HostID, product serial number and a return email address to obtain your license. To find out your HostID:
  - a. Change to the ADS `bin` directory for your platform (`solaris`, `linux` or `hpux`).
  - b. At the command prompt type:  
`lmutil lmhostid`
9. Set your `ARMLMD_LICENSE_FILE` environment variable to point to the relevant port on the license server (for example, `8224@my_license_server`).

More information on licensing is available in the *ADS Installation and License Management Guide*.

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**Note**

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Important additional information about this release is contained in a `readme.txt` file in your ADS installation directory.

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### 3.1 After installation on Sun Solaris

After installing ADS on Sun Solaris, you must modify the X-Windows configuration file (`.Xdefaults`) located in your `$HOME` directory. The file must contain the following line:

```
Dtwm*secondariesOnTop: True
```

The case is important so enter the line exactly as shown. If the `.Xdefaults` file does not exist then you must create it.

### 3.2 License Management of ADS v1.2.1 on Sun Solaris, Red Hat Linux, and HP-UX

To enable the ADS v1.2.1 components (supplied as part of the RVDS package) with your RVDS license file, you must use version 9.0 or higher of the FLEX $lm$  tools on your license server. This means that older versions of the `lmgrd` and `armlmd` daemons must be updated. The `lmutil` utility must also be updated.

New versions of the FLEX $lm$  components for the supported license server platforms are supplied on the RVDS installation CD at the following location: `Utilities/FLEXlm/9.x/release`.

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**Note**

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The existing license server process must be stopped when these changes are made, then restarted.

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To check whether you have to upgrade your license daemons, you can identify the version of an existing FLEX $lm$  component on your license server. Change to the directory where your license tools are installed, then enter either the `lmutil` or `armlmd` command. The daemon reports a version number. In the following examples, the version number associated with `armlmd` is examined.

**Example 1**

```
> lmutil lmver armlmd
lmutil - Copyright (c) 1989-2005 Macrovision Europe Ltd. and/or Macrovision
Corporation. All Rights Reserved.
FLEXnet Licensing v10.8.0.0 build 18669 (liblmgr.a), Copyright (c) 1988-2005
Macrovision Europe Ltd. and/or Macrovision Corporation. All Rights Reserved.
```

**Example 2**

```
> armlmd -vsn
16:05:07 (armlmd) FLEXnet Licensing version v10.8.0 build 18669
16:05:07 (armlmd) Vendor daemons must be run by the license server manager
(lmgrd)
```

### 3.3 Uninstalling ADS v1.2.1 on Sun Solaris, Red Hat Linux, or HP-UX

To uninstall ADS from a Sun Solaris, Red Hat Linux, or HP-UX computer:

1. Delete the ADS installation directory and all subdirectories below it.
2. Edit your `.cshrc` or `.profile` files if these were modified when you ran the `usrsetup.sh` script file.

