

**Agilent 3070 Software Patch
Web Release Revision
B.03.81b
Installation Guide**



Agilent Technologies

Introduction.....	1
Optional – Two Methods of Viewing the Software Release Bulletin (SRB).....	2
Introduction.....	2
Method One – View the SRB on the Internet.....	2
Method Two – View the SRB Included with the Software Package.....	2
Two Ways to Get Started.....	3
Downloading the Compressed Software Package from the Internet.....	3
Decompressing the B381b.tar.gz File.....	3
Package Specifications.....	4
Installation Time.....	4
Changes in the Size of File Systems.....	4
To Determine Drive Size.....	4
Check Available Local Drive Space without Disturbing the Testhead.....	4
If Logical Volume Space is not Available.....	4
Installing the Software Package.....	5
Verify the Software Package Installation.....	14
Prepare for Normal Use.....	14
Errors & Notes Logged During Swinstall’s Install Analysis Phase.....	15
Introduction.....	15
The Cause of Errors.....	15
Duplicate Revision Errors.....	15
Specific Errors that Must be Addressed.....	15
Specific Errors that can be Ignored.....	15
Types of Errors & Notes That Can Be Ignored.....	16
Screen-Shots.....	18
Optional – Making a Software Package Tape from the Decompressed Downloaded File.....	24
In Case of Difficulty or to Order this Software Package on Tape.....	25
System Administration Help.....	25
Swinstall Help.....	25

Table of Contents

More Help25

Agilent 3070 Software Patch Web Release Revision B.03.81b Installation Guide

CAUTION



Perform this procedure only if knowledgeable in HP-UX system administration.

The current software revision must be B.03.8X. To verify the current revision, log in as root and at a shell window prompt, enter: `/opt/hp3070/bin/version`

Hard-drive space must be available as described in [Changes in the Size of File Systems](#) on page 4.

Do not install this software package on controllers with two-gigabyte drives (including two-by-one-gigabyte configurations). The drive must be at least four gigabytes in size.

Review [Package Specifications](#) on page 4.

In this guide...

- [Optional – Two Methods of Viewing the Software Release Bulletin \(SRB\)](#), 2
- [Two Ways to Get Started](#), 3
- [Downloading the Compressed Software Package from the Internet](#), 3
- [Decompressing the B381b.tar.gz File](#), 3
- [Package Specifications](#), 4
- [Installing the Software Package](#), 5
- [Errors & Notes Logged During Swinstall's Install Analysis Phase](#), 15
- [Optional – Making a Software Package Tape from the Decompressed Downloaded File](#), 24

- [In Case of Difficulty or to Order this Software Package on Tape](#), 25

Introduction

This Agilent 3070 Software Patch Web Release Revision B.03.81b Installation Guide provides step-by-step instructions to install the software package on controllers operating with the HP-UX operating system.

NOTE

This guide is designed for use with the HP-UX utility `swinstall`. PATCH CONSULTANT IS NO LONGER SUPPORTED.

Optional – Two Methods of Viewing the Software Release Bulletin (SRB)

Introduction

You may want to view the software release bulletin (SRB) to determine if this software package is appropriate for installation on your system(s).

The SRB is in HTML format and displays the features included and issues resolved by installing this software package.

It is not necessary to view the SRB in order to install this software package.

Method One – View the SRB on the Internet

The SRB for this software package is available on the Internet. To view it:

- 1 Access:

http://www.ate.agilent.com/emt/members/3070/updates_downloads/updates/300/index.shtml

NOTE

A valid Agilent boardtest Web account is required to access this URL.

A new account is free and should be accessible in about two days after registering via <http://agilent.com/key/boardtest>

You may be requested to enter your testhead serial number for authentication.

- 2 Select the revision of this software package.

The SRB is displayed in the Web browser.

Method Two – View the SRB Included with the Software Package

This method, while not particularly easy, is available for viewing the SRB from the software package installation tape (or from the downloaded, decompressed file) without performing the installation.

- 1 Perform Tasks 2 and 3 in [Table 2](#) on page 5.
- 2 Perform Tasks 5 through 9 in [Table 2](#).

CAUTION



When finished viewing the SRB, do not continue with tasks in [Table 2](#). Return to [Two Ways to Get Started](#) on page 3.

Two Ways to Get Started

Choose your situation below and follow the associated instructions to install this software package:

- 1 You have already accessed the B.03.81b software package link on the Internet and now want to download and install it:
 - Start with [Downloading the Compressed Software Package from the Internet](#) and continue from there.
- 2 You have a B.03.81b software package tape and want to install it:
 - Start with [Installation Time](#) on page 4 and continue from there.

Downloading the Compressed Software Package from the Internet

NOTE

The size of the file to download is approximately 9 megabytes.

- Click [B.03.81b Patch Download](#)

NOTE

Usually `/var/tmp` is a good choice for a download directory.

Follow the browser prompts and download the software package.

Decompressing the B381b.tar.gz File

CAUTION



The decompressed size of the B.03.81b software package is approximately 24 megabytes.

However, about 48 megabytes of available space is required to perform the decompression.

At a shell window prompt:

- 1 Change to the directory to which the software package was downloaded (usually `/var/tmp`).
- 2 Enter: `/usr/contrib/bin/gunzip B381b.tar.gz`
- 3 Enter: `tar -xvf B381b.tar`
- 4 Enter: `rm B381b.tar`

The decompressed image file `B381b.pkg` results.

Package Specifications

Installation Time

Installation time will vary depending on the controller.

Minimum installation time (for a B180 controller) is given in Table 1.

Table 1 Minimum installation time (for a B180 controller)

Task	Approximate Time
Analyze	.5 minute
Load	2 minutes
Reboot (configuring all un-configured filesets)	2.5 minutes
Total Approximate Time	5.0 minutes

Changes in the Size of File Systems

The change in size to the testhead controller's file system as a result of installing this software package will vary depending on the testhead controller's pre-existing software revision.

NOTE

During this procedure, swinstall will do an installation analysis.

If required space does not exist, the software package will not be allowed to load.

To Determine Drive Size

- 1 Login as `root` then start SAM.
- 2 Click **Disk & File Systems > Disk Devices**.
- 3 The installation drive must be at least four gigabytes in size.

Check Available Local Drive Space without Disturbing the Testhead

To check if space will be available for the installation:

- 1 Perform **Task 2** then **Task 3** in **Table 2** on page 5.
- 2 Perform **Task 7** then **Task 8** in **Table 2**.
- 3 Perform **Task 10** then **Task 11** in **Table 2**.
- 4 After the installation analysis runs to completion, in the **Install Analysis** window click **Disk Space...**
The space required will be displayed.
- 5 Close the two windows.

If Logical Volume Space is not Available

- 1 Try freeing space by archiving unnecessary files.
- 2 It is possible that space can be made available by extending a logical volume.

Unsupported instructions for extending logical volumes can be found in **Managing Logical Volumes** in Chapter 6 of *Administering Agilent 3070 UNIX Systems (UNIX 10.X)* E9900-90000.

Installing the Software Package

Install the software package as described in [Table 2](#).

CAUTION



The software package should be installed at the system console; DO NOT install from a PC using X-windows emulation.

Allow no other users on the testhead; YOU should be the only user, logged in as **root**.

Unless specified otherwise, DO NOT change the default selection to any given option. The default selections allow `swinstall` to determine what needs to be updated.

Table 2 Install the HP-UX software package

Task	Step
1 Un-boot the testhead.	
2 If the software package to be installed is on tape: Otherwise, continue.	a Follow the tape drive manufacturer's instructions and perform a routine cleaning of the tape drive. b Insert the tape into the testhead controller's tape drive.
3 Log in as <code>root</code>	
4 Disable NFS mount points:	Open <code>/etc/fstab</code> and check for NFS mount points. If they exist, comment to disable them.

Table 2 Install the HP-UX software package (continued)

Task	Step
5 Disable the automounter:	<p>a Start SAM:</p> <ul style="list-style-type: none"> ■ In a shell window prompt, enter: <pre>sam</pre> <p>b After the interface has opened, click the following sequence:</p> <ol style="list-style-type: none"> 1) Networking and Communications. 2) Networked File Systems. 3) Mounted Remote File Systems. 4) From the Actions drop down menu, click Disable Automounter.
6 Reboot:	<p>Rebooting allows changes to the NFS mount points and automounter to take affect.</p> <ul style="list-style-type: none"> • Enter: <code>shutdown -r</code> <p>Allow the system time to reboot.</p>
7 Start swinstall:	<p>a Login as <code>root</code></p> <p>b At a shell window prompt, enter: <code>swinstall &</code></p>
<p>NOTE</p> <p>An information window may open and display The default source “/var/spool/sw” does not exist or is not a valid source...</p> <p>An example is shown in Figure 1 on page 18.</p> <p>If so, disregard it and click OK to close the window.</p>	
<p>A Specify Source window will open.</p>	

Table 2 Install the HP-UX software package (continued)

Task	Step
<p>8 Select a source from which to install the software package:</p>	<p>a In the Specify Source window, click the dash after Source Depot Type. An example is shown in Figure 2 on page 18.</p> <p>b Choose a source type from the three possibilities below and proceed as directed:</p> <ul style="list-style-type: none"> ■ If the file was downloaded from the Internet and decompressed to a local drive: <ol style="list-style-type: none"> 1) Click Local Directory. 2) In the Source Depot Path... field, type the path to the downloaded file including the file name. ■ If the file is on tape: <ul style="list-style-type: none"> • Click Local Tape. <p>The Source Depot Path... field will automatically be filled with the default tape device.</p> ■ If the file resides in a network location: <ol style="list-style-type: none"> 1) Click Network Directory/CDROM. 2) In the Source Host Name... field, type the network system hostname or IP address. 3) In the Source Depot Path... field, type the path to the downloaded file including the file name. <p>c Click OK.</p> <p>A SD Install – Software Selection window will open and list available software for installation.</p>

CAUTION



Leave the software filter button in the default position.

Table 2 Install the HP-UX software package (continued)

Task	Step
<p>9 Optional – View the software package contents before installing the software package:</p> <p>Skip this task and continue with Task 10 on page 9 if it is not desired to view the software package contents.</p>	<p>a Disable the automounter if it is not already disabled (use SAM, see Task 5 on page 6).</p> <p>b In the SD Install – Software Selection window, double-click the fileset bundle 307X to reveal its contents.</p> <p>c Left-click 3070SB to select then right-click it and choose Mark For Install.</p> <p>d Complete Task 11 on page 9 through Task 14, then return here.</p> <p>e From the toolbar, open the file manager and navigate to the directory <code>/var/hp3070/revision.doc</code></p> <p>f Double-click the file <code>current_release_notes.html</code></p> <p>The software release bulletin, that displays the features included and issues resolved by installing the software package, will open.</p> <p>g In the SD Install – Software Selection window, double-click the ..(Go up) button to return to Top (Bundles and Products).</p> <p>h Choose from the following two options:</p> <ul style="list-style-type: none"> ■ To install the software package, DO NOT proceed, but continue with Package Specifications on page 4. ■ If you do not want to install the software package at this time: <ol style="list-style-type: none"> 1) Close the SD Install – Software Selection window. 2) Re-enable NFS mount points (see Task 16 on page 12). 3) Re-enable the automounter (see Task 17 on page 13). 4) Logout, then log back in for normal system use.

Table 2 Install the HP-UX software package (continued)

Task	Step
<p>10 Select the software bundles to be installed:</p>	<ul style="list-style-type: none"> Select all bundles.
<p>NOTE It is OK to install 3070SB a second time if Task 9 was performed.</p>	<p>In the SD Install – Software Selection window, for each bundle to be installed left-click to select it then right click and choose Mark For Install.</p> <p>An example is shown in Figure 3 on page 19.</p>
	<p>NOTE</p> <p>An Error window may appear indicating some selections have requirements that haven't been met or some of the software is already installed.</p> <p>An example is shown in Figure 4 on page 19.</p> <p>Ignore the error and click OK.</p>
	<p>CAUTION</p> <p> DO NOT force the reinstallation of the entire update! If you do, a software reload of the entire hard-drive could be required.</p>
	<p>All bundles to be installed should now display Yes under the Marked? column.</p> <p>An example is shown in Figure 5 on page 20.</p>
<p>11 Begin the installation analysis:</p>	<ul style="list-style-type: none"> From the SD Install – Software Selection window menu-bar, click Actions > Install (analysis).... <p>An example is shown in Figure 5 on page 20.</p> <p>An Install Analysis window will open and the analysis will begin.</p>

Table 2 Install the HP-UX software package (continued)

Task	Step
<p>12 After the installation analysis runs to completion:</p>	<p>In the Install Analysis window, the Status field will display Ready, Ready with warnings, or Ready with errors.</p>
<p>NOTE If the Install Analysis fails, review Changes in the Size of File Systems on page 4.</p>	<p>An example is shown in Figure 6 on page 21.</p> <p>a Click Logfile... and view the contents to ensure that you do not have any valid errors. For more information, see Errors & Notes Logged During Swinstall's Install Analysis Phase on page 15.</p>
	<p>NOTE The Products Scheduled field in the Install Analysis screen will display the number of products to be installed compared to the number initially selected.</p> <p>If the Status box reads Ready with warnings or Ready with errors these numbers will be different.</p> <p>This can be ignored.</p>
	<p>b Click OK.</p>
	<p>NOTE If there were fatal errors, a message will display indicating which error occurred and that the installation will not be allowed to continue.</p>
	<p>A Confirmation window will appear.</p>

Table 2 Install the HP-UX software package (continued)

Task	Step
13 Begin the installation of the selected software bundles:	<ul style="list-style-type: none">In the Confirmation window, click Yes. An example is shown in Figure 7 on page 21.
<p>NOTE</p> <p>A message may be displayed indicating a reboot will be required when the installation is complete.</p> <p>An example is shown in Figure 8 on page 22.</p> <p>Click Yes.</p>	
<p>NOTE</p> <p>A message may be displayed that the session cannot be saved.</p> <p>Click OK.</p>	
<p>An Install window will appear with progress information as the software loads.</p> <p>An example is shown in Figure 9 on page 22.</p>	
<p>NOTE</p> <p>The displayed Time Left (minutes) should not be relied upon.</p>	

Table 2 Install the HP-UX software package (continued)

Task	Step
<p>14 Let the software load run to completion, then:</p>	<p>In the Install window, the Status field will display Ready, Ready with Errors or Ready with Warnings, and the Done button will be enabled.</p> <p>An example is shown in Figure 10 on page 23.</p> <ul style="list-style-type: none"> Click Done for all options stated above. <div data-bbox="961 509 1957 558" style="background-color: #e1f5fe; padding: 5px;"> <p>NOTE</p> </div> <p>If completing steps to view the software release bulletin, return to Task 9, Step e on page 8.</p>
<p>15 Complete swinstall:</p>	<p>If a message requesting a reboot appears:</p> <ul style="list-style-type: none"> click OK and wait for the controller to reboot. <div data-bbox="961 820 1957 868" style="background-color: #fff9c4; padding: 5px;"> <p>CAUTION</p> </div> <p> It could take longer than 45 minutes for the boot step Configuring all unconfigured filesets... to complete. BE PATIENT! Powering down the controller before the reboot is complete can cause damage to the file system.</p> <p>Otherwise:</p> <ul style="list-style-type: none"> Close the SD Install – Software Selection window.
<p>16 Re-enable NFS mount points:</p>	<p>a Open <code>/etc/fstab</code> and remove any comments placed to disable NFS mount points, then close the file.</p> <p>b At a shell window prompt, enter: <code>mount -a</code></p>

Table 2 Install the HP-UX software package (continued)

Task	Step
17 Re-enable the automounter:	<p>a Start SAM:</p> <p>b After the interface has opened, click the following sequence:</p> <ol style="list-style-type: none"> 1) Networking and Communications. 2) Networked File Systems. 3) Mounted Remote File Systems. 4) From the Actions drop down menu, click Enable Automounter. <div style="background-color: #e1f5fe; padding: 5px; margin-top: 10px;"> <p>NOTE</p> <p>SAM may not indicate that the automounter is enabled, even though it is. To prove that the automounter is enabled, at a shell window prompt enter: <code>cd /net/<some remote system name></code> If a connection is not established, the message not found will be returned.</p> </div>
18 Reboot:	<p>This allows changes to NFS mount points and the automounter to take affect.</p> <ul style="list-style-type: none"> • Enter: <code>shutdown -r</code>

Verify the Software Package Installation

- 1 Log in as `root`
- 2 In a shell window prompt, enter:
 - a `cd /`
 - b `verflist /opt/hp3070/etc/HP3070PT/flist`

If unexpected output is returned, contact your Agilent support representative.

- c `/opt/hp3070/bin/version`

If the software revision reported is not B.03.81b, then the installation has failed (see [Errors & Notes Logged During Swinstall's Install Analysis Phase](#) on page 15).

Prepare for Normal Use

- 1 Logout, then log back in as the appropriate user.
- 2 Boot the testhead and let its temperature stabilize.
- 3 Run AutoAdjust.

Errors & Notes Logged During Swinstall's Install Analysis Phase

This section contains:

- [The Cause of Errors](#), 15
- [Specific Errors that Must be Addressed](#), 15
- [Specific Errors that can be Ignored](#), 15
- [Types of Errors & Notes That Can Be Ignored](#), 16

NOTE

Installation log files are:

`/var/adm/sw/swinstall.log` and

`/var/adm/sw/swagent.log`

If you get an error that prevents the installation, check the bottom of these files for the most recent entries.

Introduction

It is unlikely that any valid errors will be logged as a result of installing this software package. However, it is important to click **Logfile...** and view it when asked, so that you do not start the software transfer from a corrupt tape or with a problem tape drive.

The Cause of Errors

Duplicate Revision Errors

An extensive list of errors is likely to be logged.

When installing the software package, if a software package element has been previously installed, the element will not be re-installed and an error will be generated. Therefore, the number of errors logged will vary depending on your pre-existing revision of software – a more current pre-existing revision of software will cause more errors to be logged.

Specific Errors that Must be Addressed

- `swinstall: Failed Due to Space In a Logical Volume:`

If this message appears, see [If Logical Volume Space is not Available](#) on page 4.

Specific Errors that can be Ignored

- `ERROR: Latest 3D Runtime PHSS_19258 is not on the system. It must be installed.`

Types of Errors & Notes That Can Be Ignored

NOTE

Usually, errors similar to the ones listed below can be safely ignored.

- “<hostname>: /dev/rmt/0m”: Cannot open the logfile on this target or source. Possibly the media is read-only or there is a permission problem. Check the daemon logfile and “/var/tmp/swagent.log” on this host for more information.
- NOTE: The fileset "OS-Core.C-KRN,r=B.10.20" is already installed. If you wish to reinstall this fileset, change the "reinstall" option to "true".
- NOTE: The fileset "PHKL_12447.PHKL_12447,r=B.10.00.00.AA" is already installed. If you wish to reinstall this fileset, change the "reinstall" option to "true".
- ERROR: A version of fileset "NSComm.NSCOMM-BIN-EF,r=B.10.20.01" is already installed in another location (see previous lines). Installing this version will create multiple installed versions. You must either remove that fileset or change the "allow_multiple_versions" option to "true".
 - * A version of the fileset exists:
"NSComm.NSCOMM-ENG,l=/opt/ns-communicator,r=B.10.20.01". This fileset version is already configured.
- NOTE: The patch PHKL_12447 is already installed on the system. Skipping the installation of PHKL_12447. To reinstall this patch, deinstall it first before attempting to reinstall it.
- NOTE: The "checkinstall" script for "PHKL_12447" gave an "exclude" return (exit code "3"). The script location was "/var/tmp/AAAa24160/catalog/PHKL_12447/pfiles/checkinstall".
- NOTE: This software will be excluded from further processing.
- ERROR: The "checkinstall" script for "PHCO_17075" failed (exit code "1"). The script location was "/var/tmp/AAAa24160/catalog/PHCO_17075/pfiles/checkinstall".
 - * This script had errors and the execution of this product cannot proceed until the problem is fixed. Check the above output from the script for further details.
- WARNING: the patch PHCO_19778 is not necessary on an Ignite-UX system (assumed because of the presence of /opt/ignite/bin/instl_adm). It will not be loaded.
- ERROR: The "checkinstall" script for "PHSS_19261" failed (exit code "1"). The script location was "/var/tmp/AAAa24160/catalog/PHSS_19261/pfiles/checkinstall".
 - * This script had errors and the execution of this product cannot proceed until the problem is fixed. Check the above output from the script for further details.
 - * Executing preDSA command.

Errors & Notes Logged During Swinstall's Install Analysis Phase

- NOTE: The used disk space on filesystem "/" is estimated to increase by 1161 Kbytes. This will leave 56863 Kbytes of available user disk space after the installation.
- NOTE: Could not install the bundle "B3782EA,r=B.10.20" because none of its filesets could be installed.
- NOTE: All filesets in the product "PHCO_17075,r=B.10.00.00.AA" will be excluded because there was an error in this product.
- ERROR: Exclude
NSComm.NSCOMM-RUN,r=B.10.20.01
- ERROR: Exclude
PHCO_17075.PHCO_17075,r=B.10.00.00.AA

Screen-Shots

Figure 1 Disregard this **Information** window and click **OK** to close it



Figure 2 The **Specify Source** window

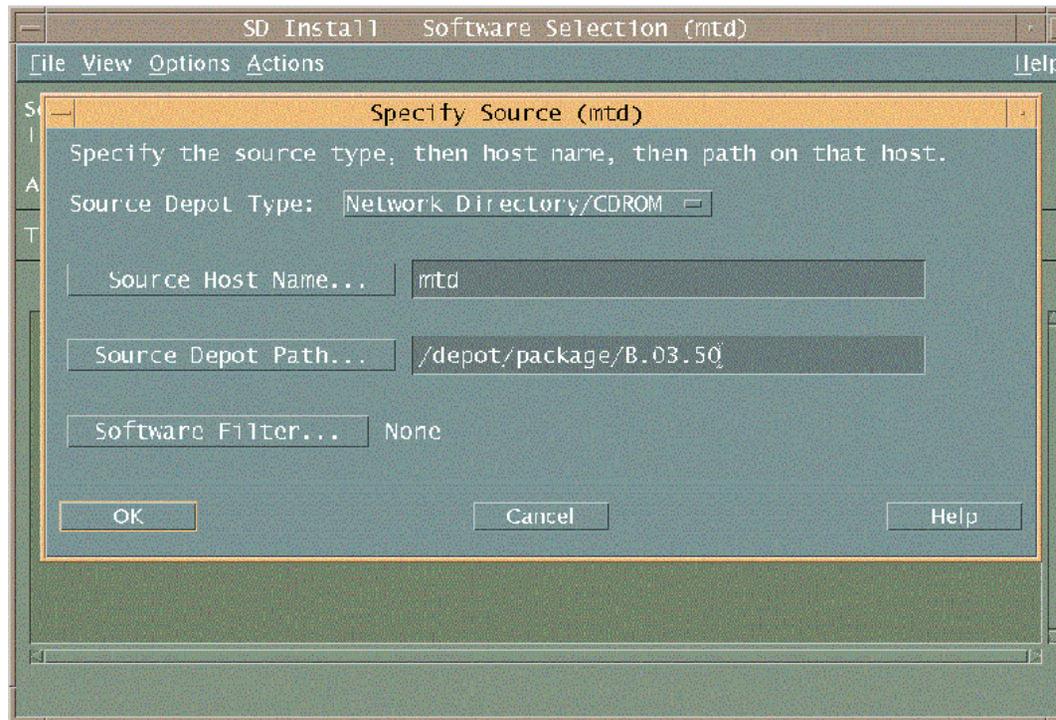


Figure 3 The **Software Selection** window – Left-click to select then right-click and **Mark For Install** each bundle specified.

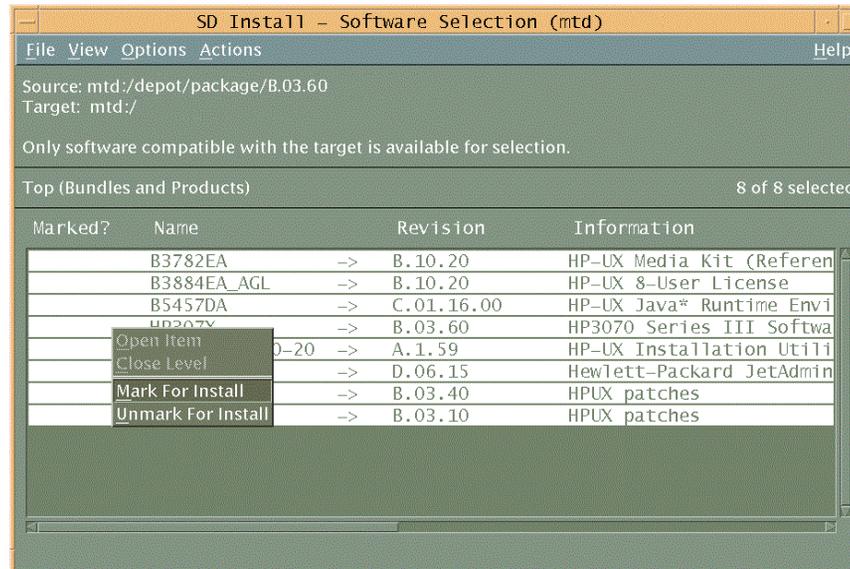


Figure 4 Ignore this **Error** window and click **OK** to close it



Figure 5 With the appropriate bundle(s) selected for installation, choose **Actions > Install (analysis)...**

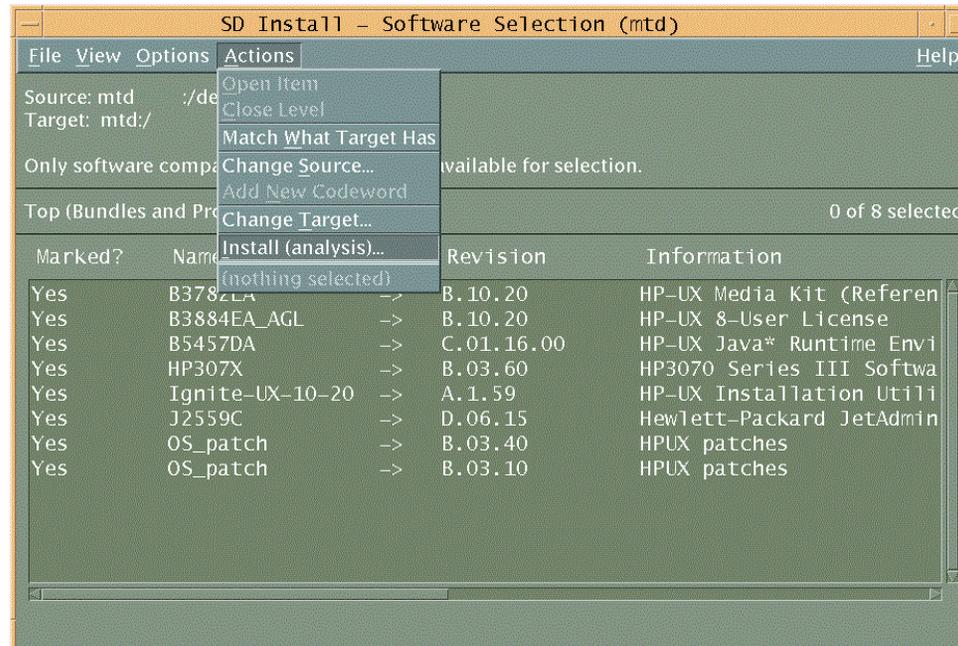


Figure 6 This install analysis is complete

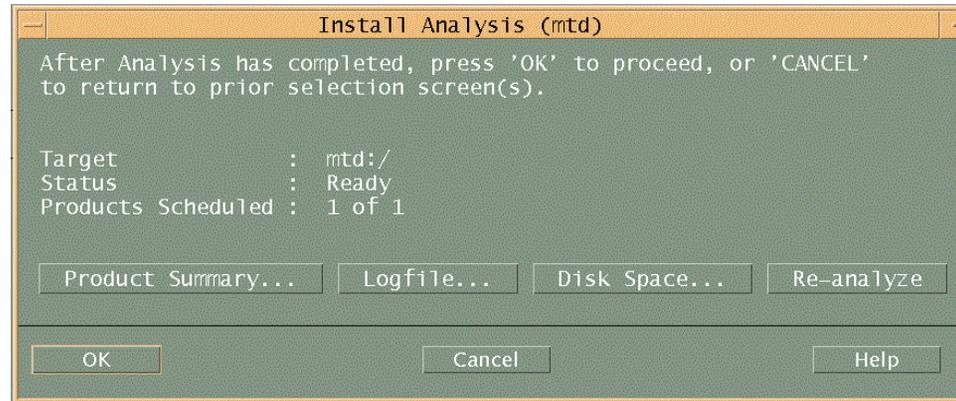


Figure 7 A Confirmation window

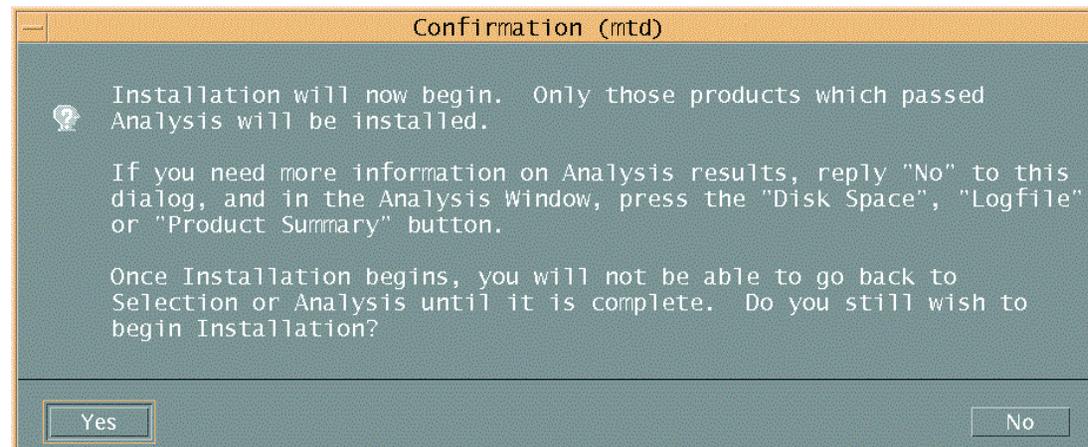


Figure 8 A Confirmation dialog box indicating a reboot will be necessary

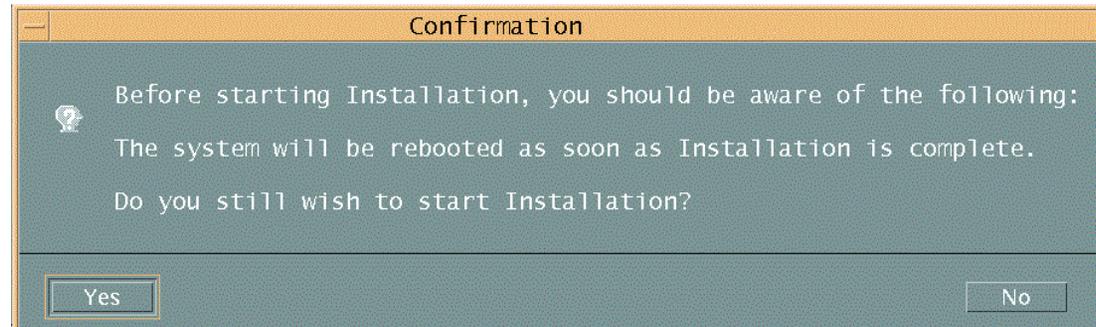


Figure 9 Software load progress in the **Install** window

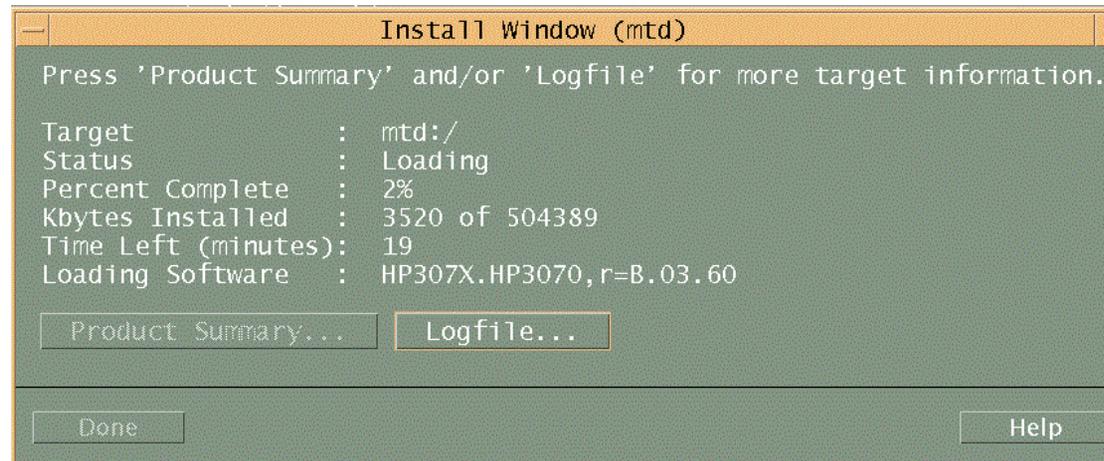
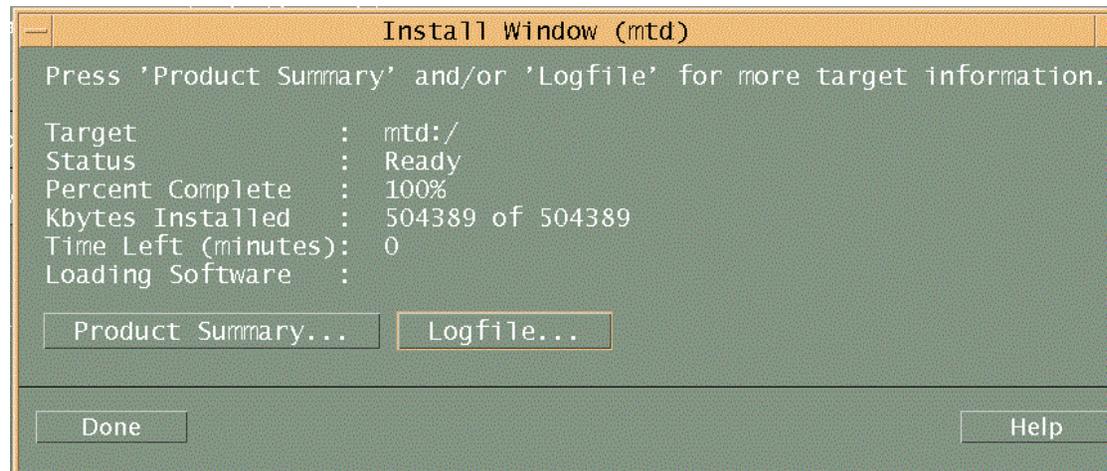


Figure 10 Software load complete in the **Install** window



Optional – Making a Software Package Tape from the Decompressed Downloaded File

NOTE

This step is optional and may be completed if a backup tape is desired or if it is necessary to install the software package on a non-networked 3070.

To create a B.03.81b software package tape, assuming the `B381b.pkg` file exists under the directory `/var/tmp` and the standard tape device drivers exist:

- 1 Insert the tape to be made in the tape drive.
- 2 Enter:

```
dd if=/var/tmp/B381b.pkg of=/dev/rmt/0m obs=10k
```

In Case of Difficulty or to Order this Software Package on Tape

System Administration Help

See *Administering Agilent 3070 UNIX Systems (UNIX 10.X)* available in the online documentation or on paper as part number E9900-90000.

Swinstall Help

Reference information for swinstall can be found by entering: `man swinstall` at a shell window prompt.

More Help

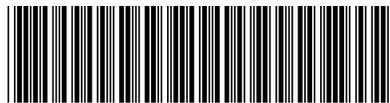
If difficulty persists, contact your Agilent support representative.

NOTE

Find your Agilent support representative on the Internet at <http://www.agilent.com>

- 1 From the top of the page, click **Contact Us**
- 2 Click **Test & Measurement**
- 3 Click (your country) and find the **Technical & Professional Services** heading.

The B.03.81b software package patch on tape is part number E9900-19484. It includes this manual.



E9900-96184-A

Printed in USA
04/2001

