

How to Install an OSCAR Cluster
Quick Start Install Guide
Software Version 4.0
Documentation Version 4.0

<http://oscar.sourceforge.net/>
oscar-users@lists.sourceforge.net

The Open Cluster Group
<http://www.openclutergroup.org/>

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1 Introduction

The OSCAR (Open Source Cluster Application Resource) software package is intended to simplify the complex tasks required to install a cluster. While the usual intended use for OSCAR clusters is for high-

Distribution and Release	Architecture	Status
Red Hat 9	x86	Fully supported
Red Hat Enterprise Linux 3	x86	Fully supported
Red Hat Enterprise Linux 3	ia64	Fully supported
Fedora Core 2	x86	Fully supported

Table 1: OSCAR supported distributions

1.4 Minimum System Requirements

The following is a list of minimum system requirements for the OSCAR server node:

the cluster installation procedure (the level of detail lies somewhere between “the install will now update

- The <**Cancel**> button in the <**Install/Uninstall Package**> step does not work properly; if any packages are selected to be installed or uninstalled, clicking the <**Cancel**> button still triggers the execution of the package installer/uninstaller. This will be fixed in a future release. The same behavior occurs if you close the window via the window manager's "close" functionality.

1.

- USB

AFTER OSCAR WIZARD STEP 4: if you need to use the keyboard on a USB-only system, like the IntelSR870BH2, you need to add the USB controller to the image file

```
/var/lib/systemimager/images/oscarimage/etc/modules.conf
```

For example,

```
echo alias usb-controller usb-uhci >> \  
/var/lib/systemimager/images/oscarimage/etc/modules.conf
```

- tftp-server

AFTER OSCAR WIZARD STEP 6, BEFORE YOU BOOT THE CLIENT NODES: you will need to

For ia64 clients, add this value to the "append" keyword in the "image" section of
/tftpboot/elilo.conf

For example,

```
prompt
timeout=50
default=sisboot

image=kernel
  label=sisboot
  initrd=initrd.img
  read-only
  root=/dev/ram
  append="DISKORDER=sd,hd,cciss,ida,rd"
```

NOTE: elilo requires keywords in lower case.

4 Quick Cluster Installation Procedure

4.1.3 Download a copy of OSCAR and unpack on the server

If you are reading this, you probably already have a copy of an OSCAR distribution package. If not, go to <http://oscar.sourceforge.net/>

3. The *Base name* field is used to specify the first part of the client name and hostname. It will have an index appended to the end of it. This name *cannot* contain an underscore character “_”.
4. The *Number of Hosts* field specifies how many clients to create. **This number must be greater than 0.**
5. The *Starting Number* specifies the index to append to the

- The <**Dynamic DHCP Update**> checkbox at the bottom right of the window controls refreshing the DHCP server. If it is selected (the default), the DHCP server configuration will be refreshed each time a MAC is assigned to a node. Note that if the DHCP reconfiguration takes place quick enough, ye

compute nodes, and run them outside of the wizard environment. All scripts are re-runnable in OSCAR, and for several good reasons.

These options are not good ones, and we recognize this fact. We are working on better tools for general use. Generally, it is a difficult problem to judge error codes on remote systems and try to guess the appro-