



Hitachi Compute Blade Installation Guide for SUSE Linux

OS Installation Guide

FASTFIND LINKS

[Getting Help](#)

[Contents](#)

© 2010-2013 Hitachi, Ltd. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or stored in a database or retrieval system for any purpose without the express written permission of Hitachi, Ltd.

Hitachi, Ltd., reserves the right to make changes to this document at any time without notice and assumes no responsibility for its use. This document contains the most current information available at the time of publication. When new or revised information becomes available, this entire document will be updated and distributed to all registered users.

Some of the features described in this document might not be currently available. Refer to the most recent product announcement for information about feature and product availability, or contact Hitachi Data Systems Corporation at <https://portal.hds.com>.

Notice: Hitachi, Ltd., products and services can be ordered only under the terms and conditions of the applicable Hitachi Data Systems Corporation agreements. The use of Hitachi, Ltd., products is governed by the terms of your agreements with Hitachi Data Systems Corporation.

Hitachi is a registered trademark of Hitachi, Ltd., in the United States and other countries. Hitachi Data Systems is a registered trademark and service mark of Hitachi, Ltd., in the United States and other countries.

Archivas, Essential NAS Platform, HiCommand, Hi-Track, ShadowImage, Tagmaserve, Tagmasoft, Tagmasolve, Tagmastore, TrueCopy, Universal Star Network, and Universal Storage Platform are registered trademarks of Hitachi Data Systems Corporation.

AIX, AS/400, DB2, Domino, DS8000, Enterprise Storage Server, ESCON, FICON, FlashCopy, IBM, Lotus, OS/390, RS6000, S/390, System z9, System z10, Tivoli, VM/ESA, z/OS, z9, zSeries, z/VM, z/VSE are registered trademarks and DS6000, MVS, and z10 are trademarks of International Business Machines Corporation.

All other trademarks, service marks, and company names in this document or website are properties of their respective owners.

Microsoft product screen shots are reprinted with permission from Microsoft Corporation.



Contents

Preface	v
Intended Audience	vi
Product Version.....	vi
Release Notes	vi
Document Conventions.....	vii
Getting Help	viii
Comments.....	viii
Scope	1-1
Supported Operating Systems	1-2
Limitations.....	1-2
SUSE Linux Installation and Setup	2-1
General Information	2-2
Related documentation	2-2
Hardware Compatibility	2-2
Prerequisites.....	2-3
Boot from SAN	2-3
Installation Media	2-3
Installing	2-4
Installing.....	2-4
Management LAN Port on Compute Blade 2000.....	2-4
Settings after installation	2-4
OS patches	2-4
Drivers and utilities	2-4
Acronyms and Abbreviations	Acronyms-1



Preface

This document describes how to install and setup SUSE Linux on Compute Blade.

This preface includes the following information:

- [Intended Audience](#)
- [Product Version](#)
- [Release Notes](#)
- [Document Conventions](#)
- [Getting Help](#)
- [Comments](#)

Notice: The use of Hitachi Compute Blade servers and all other Hitachi Data Systems products is governed by the terms of your agreement(s) with Hitachi Data Systems.

Intended Audience

This document is intended for anyone who needs to install and setup SUSE Linux on Compute Blade.

Product Version

This document revision applies to Hitachi Compute Blade servers.

Release Notes





Release notes contain requirements and more recent product information that may not be fully described in this manual. Be sure to review the release notes before installation.

Document Conventions

This document uses the following typographic conventions:

Convention	Description
Bold	Indicates text on a window, other than the window title, including menus, menu options, fields, and labels. Example: Click OK .
<i>Italic</i>	Indicates a variable, which is a placeholder for actual text provided by the user or system. Example: <i>copy source-file target-file</i> Note: Angled brackets (< >) are also used to indicate variables.
screen/code	Indicates text that is displayed on screen or entered by the user. Example: # <code>pairdisplay -g oradb</code>
< > angled brackets	Indicates a variable, which is a placeholder for actual text provided by the user or system. Example: # <code>pairdisplay -g <group></code> Note: Italic font is also used to indicate variables.
[] square brackets	Indicates optional values. Example: [a b] indicates that you can choose a, b, or nothing.
{ } braces	Indicates required or expected values. Example: { a b } indicates that you must choose either a or b.
vertical bar	Indicates that you have a choice between two or more options or arguments. Examples: [a b] indicates that you can choose a, b, or nothing. { a b } indicates that you must choose either a or b.
<u>underline</u>	Indicates the default value. Example: [<u>a</u> b]

This document uses the following icons to draw attention to information:

Icon	Meaning	Description
	WARNING	This indicates the presence of a potential risk that might cause death or severe injury.
	CAUTION	This indicates the presence of a potential risk that might cause relatively mild or moderate injury.
NOTICE	NOTICE	This indicates the presence of a potential risk that might cause severe damage to the equipment and/or damage to surrounding properties.
	Note	This indicates notes not directly related to injury or severe damage to equipment.
	Tip	This indicates advice on how to make the best use of the equipment.

Getting Help

If you purchased this product from an authorized HDS reseller, contact that reseller for support. For the name of your nearest HDS authorized reseller, refer to the HDS support web site for locations and contact information. To contact the Hitachi Data Systems Support Center, please visit the HDS website for current telephone numbers and other contact information:
<http://support.hds.com>.

Before calling the Hitachi Data Systems Support Center, please provide as much information about the problem as possible, including:

- The circumstances surrounding the error or failure.
- The exact content of any error message(s) displayed on the host system(s).

Comments

Please send us your comments on this document: doc.comments@hds.com. Include the document title, number, and revision, and refer to specific sections and paragraphs whenever possible. All comments become the property of Hitachi Data Systems Corporation. **Thank you!**

Scope

This chapter describes the scope and the limitations when installing Operating Systems described in this document on Hitachi Compute Blade servers.

- [Supported Operating Systems](#)
- [Limitations](#)

Supported Operating Systems

The following chapters provide the information how to install and configure the Operating Systems listed below.

- SUSE Linux Enterprise Server 11, 11 SP1

Limitations

Hitachi is only responsible for the server hardware when installing and the use of Operating Systems, (hereinafter referred to as OS) listed in the section, **Supported Operating Systems**.

- Hitachi Proprietary features such as HSCM, Hitachi Server Conductor, LPAR manager and Hitachi HBA, and N+M cold standby, IOEU and 2-blades or 4-blades SMP configuration on high-performance server blade are only supported on the Hitachi servers with Windows, Red Hat Enterprise Linux, and VMware.

HSCM: Hitachi Compute Systems Manager

LPAR manager: logical partitioning manager

IOEU: I/O Slot Expansion Unit

- Hitachi Compute Blade servers are certified for each OS version by Operating System distributor. Any inquiries related to OS or the outbox drivers provided from I/O device vendor should be sent to OS distributor or the I/O device vendor based on the customer's Support Agreement with them
- Some I/O options may not be supported in combination with servers and OS. Please check Hardware Compatibility List on I/O options provided by OS distributors, and contact sales representative or contracted support representative for the supported I/O options on Compute Blade servers.

THIS PUBLICATION IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, INCLUDING BUT NOT LIMITED TO, THE WARRANTY FOR MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. YOU SHALL BEAR THE ENTIRE LIABILITY AND COST FOR ANY PROBLEM OR TROUBLE RELATING TO THIS PUBLICATION.

SUSE Linux Installation and Setup

This chapter describes how to install and setup **SUSE Linux** on Hitachi Compute Blade.

- [General Information](#)
- [Prerequisites](#)
- [Installing](#)
- [Setting after Installation](#)

General Information

Related documentation

The following web site provides the documents how to install, configure and operate **SUSE Linux**.

Please see the document before installation.

SUSE Linux Support

<https://www.suse.com/>

Hardware Compatibility

Hitachi Compute Blade servers are certified for each OS version by **Novell**. For detailed information about Server hardware compatibility of Hitachi Compute Blade servers, please see the following web site.

SUSE Linux Certified Hardware

<https://www.suse.com/yessearch/Search.jsp>

Prerequisites

Boot from SAN

If you install **SUSE Linux** to boot from SAN, you have to follow the configuration rules and select the appropriate settings to the Server chassis, the Fibre Channel adapters, the SAN storage systems and Fibre Channel switches.

Please consult the reseller from which you purchased the product for details about updates for the SAN environment configuration.

Installation Media

Please obtain an appropriate installation media from OS distributor.

Installing

Installing

When installing **SUSE Linux**, you can use CD/DVD or specify ISO image directly when connecting a server using Remote Console.

For installation procedure of **SUSE Linux**, please see the following web site.

SUSE Documentation

<https://www.suse.com/documentation/>

Management LAN Port on Compute Blade 2000

On particular models (X55A1/A2, X57A1/A2) of Compute Blade 2000 servers, Intel® 82567LF-2 Gigabit Network Connection is a management LAN port. Do not use this network adapter on the Operating System.

The network adapter is identified as eth<number> on **SUSE Linux** and Intel® 82567LF-2 Gigabit Network Connection is assigned as the largest number.

Settings after installation

OS patches

Please apply patches, fixes and updates as needed. You can download the latest binaries from the **SUSE** download site.

Drivers and utilities

Please update drivers of adapters as needed.



Acronyms and Abbreviations

BSMI	Bureau of Standards, Metrology and Inspection
CD	Compact Disk
CPU	Central Processing Unit
CRU	Customer Replaceable Units
DBS	Deep Brain Stimulation
DCB	Direct Copper Bonding
DIMM	Dual Inline Memory Module
DVD	Digital Versatile/Video Disk
EFI	Extensible Firmware Interface
EIA	Environmental Impact Assessment
FC	Fibre Channel
FCC	Federal Communications Commission
FD	Floppy Disk
FTP	File Transfer Protocol
HDD	Hard Disk Drive
ID	Identity Document
IO	Input/Output
IP	Internet protocol
iSCSI	Internet Small Computer System Interface
KVM	Keyboard, Video and Mouse
LAN	Local Area Network
LED	Light Emitting Diode
OS	Operating System
PC	Personal computer
PCI	Peripheral Component Interconnect
SAN	Storage Area Network
SAS	Serial Attached SCSI
SNMP	Simple Network Management Protocol
SSD	Solid State Drive
SVP	SerVice Processor
USB	Universal Serial Bus
VLAN	Virtual LAN

WEEE	Waste Electrical and Electronic Equipment
WWN	World Wide Name

Hitachi Data Systems

Corporate Headquarters

2845 Lafayette Street
Santa Clara, California 95050-2639
U.S.A.
www.hds.com

Regional Contact Information

Americas

+1 408 970 1000
info@hds.com

Europe, Middle East, and Africa

+44 (0) 1753 618000
info.emea@hds.com

Asia Pacific

+852 3189 7900
hds.marketing.apac@hds.com

