

VM2000-Linux Version 8.0

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Linux @ BS2000/OSD Business Server

Linux, the open operating system, provides an attractive platform for a rapidly growing number of solutions on our BS2000 servers. Linux offers an alternative operating system with strong growing application potential in the building of new business fields such as e-commerce, Web hosting or file and print services. Fujitsu Siemens Computers BS2000/OSD Business Server offer the solid platform necessary for using Linux in tasks with the highest demands on availability and efficiency. That is, you can easily consolidate several BS2000/OSD- and Linux systems on one single server.

Functional description

VM2000-Linux extends the Virtual Machine of BS2000/OSD so that Linux systems can run. It supports the concurrent operation of up to fourteen Linux systems or several Linux systems together with several BS2000 systems (totally 15 systems at a maximum). Each system is totally segregated from the others, i.e. problems in one system (up to total crash) have no impact on the rest.

Deployment options for Linux on S-Servers

Many of the open software products are available for Linux on VM2000: Web servers (Apache), Mail services, file/print services (Samba), C/C++ compiler (gnu) and many more applications. Additionally the HSMS Client, openSM2 or openSEAS products like *WebTransactions* and *openFT* can be made available on customer demand.

Contents

VM2000-Linux is an add-on product for the Virtual Machine VM2000 enabling it to run Linux. Linux itself is an open product that costs nothing. VM2000 is not contained within VM2000-Linux but it is a software requirement. Standard:

VM2000-Linux comprises:

- Functional extensions in VM2000 for running Linux
- The customer-specific pre-configuration of Linux made by FSC (If you call this service, an SuSE SLES 8 based Linux will be configured)
- Maintenance by updates which are available at SuSE Linux itself is delivered free of charge.

Up to 14 Linux systems can run simultaneously in a way whereby the systems are totally segregated from each other, i.e.

- Problems in one system have no impact on the rest.
- No system can access main memory areas, global storage areas and devices assigned to other systems.

CPU allocation to the individual systems is controlled via time slices. The number of time slices per time unit can be controlled dynamically by the VM system administrator by assigning a CPU quota. A limit on CPU allocation can be specified by Max-CPU-Utilization

Restrictions

- Runs on the Business Servers S120, S140, S145, S155, S170, S180 and S190.
- Linux can be used on a maximum of 14 Virtual Machines (on S120 on up to 6 VMs).
- On Virtual Machines with Linux there is no dynamic storage allocation (EXTEND-/ REDUCE-VM-MEMORY) available.

Benefits for the VM2000 concept and technical structure

See Data Sheet VM2000

Technical requirements

Hardware

The following Business Servers are supported by VM2000-Linux:

| Business Server | V8.0 | Max. number of Linux-VMs |
|-----------------|------|--------------------------|
| S120 | x | 6 |
| S140 | x | 14 |
| S145 | x | 14 |
| S155 | x | 14 |
| S170 | x | 14 |
| S180 | x | 14 |
| S190 | x | 14 |

HW Requirements

- 1 Ethernet connection via HNC; FDDI connection not available at present
 - 2 Hard discs (or more) D3490-10/-40 (CKD-discs) or D3435 (FBA-discs), 3rd Hard disc recommended
 - 1 Tape recorder D3490 (18 track, T-C1), D3588 or D3590 (36 track, T-C4)
 - 1 virtual console of the device type 02 / 02
 - 256 MB main memory or more
- for post-installations by the customer you need:
- 1 PC with NFS connection for installation of further Linux mainframe software

Software**Software Requirements**

- VM2000 V8.0 (BS2000/OSD)
- OMNIS V8.3
- or SKPX (from SINIX-2000-Z K818.4)
- BS2000/OSC-BC V5.0 or V6.0 on VM1

Customer-specific pre-configuration by FSC

A main benefit of VM2000-Linux for the customer is the user-specific pre-configuration. For that, the customer fills out a questionnaire with the following topics:

- Mainframe machine type
- Type, size, format and name of the hard disc
- Device name of the HNC connections
- Name of the system and the IP addresses of the system, gateways, broadcast, name-server, subnet-mask and name of the network

Thereafter the customer will receive a specific Linux system ready for his needs.

Installation

In accordance with release notice

Documentation

Installation specifics for the preconfigured Linux in read me form

Training

Courses are held by Siemens Business Services – Training and Services – under the currently valid conditions.

Conditions

This software product is supplied to the customer under our conditions against a single payment or installments.

Warranty

Class: A (not applicable to Linux)

Delivery format: Machine language

Ordering and delivery

This software product may be obtained from your local Fujitsu Siemens Computers regional office