

Calculate Linux - Feature # 182: Modifying kernel for servers

Status:	Closed	Priority:	Normal
Author:	Dmitry Fomenko	Category:	Calculate Directory Server
Created:	10/14/2010	Assignee:	Alexander Tratsevskiy
Updated:	01/31/2011	Due date:	01/31/2011
Subject:	Modifying kernel for servers		
Description:	<p>Can you add several parameters to CDS kernel?</p> <ol style="list-style-type: none">1) Add CONFIG_TASKSTATS and its subtree, CONFIG_TASK_DELAY_ACCT, CONFIG_TASK_XACCT and CONFIG_TASK_IO_ACCOUNTING (General setup → Export task/process statistics through netlink, Enable per-task delay accounting, Enable extended accounting over taskstats and Enable per-task storage I/O accounting). It's need by sys-process/iotop, very useful system utility for server.2) Add CONFIG_HZ_100 (Processor type and features → Timer frequency → 100 Hz). This is common selection for server.3) Add CONFIG_HOTPLUG_PCI and subtree (Bus options (PCI, etc) → Support for PCI hotplug). For server motherboard it's often feature.4) Add CONFIG_I2C_CHARDEV and common-used controller drivers (Device drivers → I2C support → I2C device interface and in this menu I2C Hardware Bus support → define "M" for AMD, Intel, Nvidia, Sis, Ali chipsets and SMBus Control Method interface for ACPI). Also add build as a modules all sensors in Device Drivers → Hardware Monitoring support. All of this needed by sys-apps/lm_sensors, best hardware monitoring utility, commonly used on servers . <p>Also, i would have to remove all modules/drivers/options related to notebooks.</p> <p>All of this related only for server kernel. For most enduser this kernel modifications not required in most cases.</p>		

Associated revisions

01/31/2011 05:19 pm - Alexander Tratsevskiy

Update kernel config for Calculate servers (IssueID #182).

History

01/31/2011 05:22 pm - Alexander Tratsevskiy

- Due date set to 01/31/2011

- Category set to Calculate Directory Server

- Status changed from New to Closed

- Assignee set to Alexander Tratsevskiy

- % Done changed from 0 to 100

ready