


HPUX: Hard-/Virtual Partitioning



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 - Hardwareplattform
 - Bootverhalten
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npar: Hardwareplattform




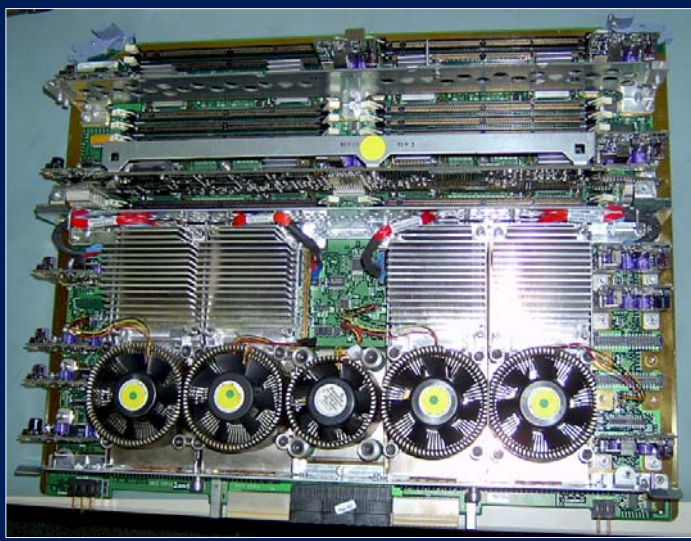


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npar: Hardwareplattform





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npar: Bootverhalten

OS
ISL
BCH

OS
ISL
BCH

OS
ISL
BCH

Ctrl b →
← co

Ctrl b →
← co

Ctrl b →
← co

M

P

POST

Press any key within 10 seconds

fabric init

boot boot boot

BIB

BIB

BIB

BIB


POST

POST

POST

POST

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npar: Partition Manager

- Command Line
- GUI

Partition Manager (hard1 - par0)

File View Options Go Complex Partition Cell I/O Details Analysis Help


Complex Name: Complex1

MyComplex:	Status	Hardware Status
hard1 (par0)	active	ok
hard2 (par1)	active	ok
soft1_clever (par2)	active	warning
soft2_may_be (par3)	active	ok
Available Resources	-	-
Empty Cell/IOchassis Slots	-	-

6 objects No selection

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npar: Maintenance

- MP
 - Consolen
 - Console Logs
 - Reset / TOC
 - Complex Profile
 - Genesis Partition
- hpux-shell
 - parstatus / parcreate / parmodify

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vpar: Hardwareplattform

- alle Cellbased Systeme
- rp5470 (L3000)
- rp7400 (N4000)

- Itanium – Systeme (Q2 '05)

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vpar: Bootverhalten

1. Selbsttest und Init. der npar
2. hpux /stand/vpmon [-a]

MON> vparload -p <vp_name> -o "-lq"

To boot the 2nd partition use vparboot from the shell of the 1st partition:
vparboot -p vp_name [-b kernel_path] [-o boot_opts]

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vpar: Maintenance

Im Beispiel: N4000 mit 5 CPUs


```
# vparstatus
```

Virtual Partition Name	State	Attributes	Kernel Path	Boot Opts
rtgdg115	Up	Dyn,Auto	/stand/vmunix	
grodg030	Up	Dyn,Auto	/stand/vmunix	

[Virtual Partition Resource Summary]

Virtual Partition Name	CPU		Num	Memory (MB)
	Min/Max	Bound/Unbound		
rtgdg115	1/ 4	1 1	10	0/ 0 4096
grodg030	2/ 4	2 1	9	1/256 2048

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vpar: Maintenance

```
# ioscan -fkCprocessor
Class      I  H/W Path  Driver      S/W State H/W Type  Description
=====
processor  0  33      processor CLAIMED   PROCESSOR Processor
processor  1  45      processor CLAIMED   PROCESSOR Processor
processor  2  109     processor CLAIMED   PROCESSOR Processor

# top
System: rtgdg115                               Wed Mar 30 11:23:41 2005
Load averages: 1.58, 1.55, 1.55
131 processes: 116 sleeping, 15 running
Cpu states:
CPU  LOAD   USER   NICE   SYS   IDLE  BLOCK  SWAIT  INTR  SSYS
  0   1.69   0.2%  99.4%  0.4%  0.0%  0.0%  0.0%  0.0%  0.0%
  2   1.47   0.2%  97.0%  2.8%  0.0%  0.0%  0.0%  0.0%  0.0%
---  ---    ---    ---    ---    ---    ---    ---    ---    ---
avg  1.58   0.2%  98.2%  1.6%  0.0%  0.0%  0.0%  0.0%  0.0%

Memory: 174404K (138188K) real, 447800K (369796K) virtual, 3429504K free

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```

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npar / vpar im Vergleich

npar:

- Hardware Trennung der Partitionen
- Management der Partitionen über den MP

vpar:

- online Verschieben von unbound CPUs
- Management einer Partition von der anderen
- schnelles Booten

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Q & A

