



Xen HVM Support Update

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HVM Support Status



Hypervisor architecture		IA32	IA32-PAE	EM64T	IPF
Guest architecture	IA32	Done	Done	Done	Blocked
	IA32-PAE	Blocked	Done	Done	Blocked
	EM64T	Blocked	Blocked	Done	Blocked
	IPF	Blocked	Blocked	Blocked	Done
Guest OS type	Para-virtualized Linux	Done	Done	Done	Done
	Unmodified Linux	Done	Done	Done	Done
	32-bit Windows	Done	Done	Done	Blocked
	64-bit Windows	Blocked	Blocked	WIP	Done
SMP	Host	Done	Done	Done	Done
	Dom0 / DomU	Done	Done	Done	Done
	Unmodified guest	Done	Done	Done	Done
Guest device support	PIC/PIT/KBD/Mouse/IDE/VGA/NIC	Done	Done	Done	Done
	VBD/VNIF (for performance)	Done	Done	Done	WIP
Guest FW	Bochs Bios / ACPI	Done	Done	Done	Done
Guest OS installation	From CD	Done	Done	Done	Done
	From network	Not started	Not started	Not started	Not started
Suspend / restore		WIP	WIP	WIP	Not started
Live Migration		Not started	Not started	Not started	Not started
Power mgt	S-state, P-state	WIP	WIP	WIP	Not started
VT-d		WIP	WIP	WIP	Not started



Recent Updates

- **Features have been completed**

- Shadow2
- ACPI
- SMP HVM guests (Linux)
- VBD/VNIF
- IPF/Xen booting SMP guests and IPF Windows

- **Other tasks**

- Better Real Mode emulation
- Stub domains
- Suspend/resume of HVM guests
- Direct Hardware Assignment using VT-d (WIP)
- Other SMP OSes (WIP)
- Power Mgt (starting this week!)
- Live migration of VT domain (to be started)
- Performance tuning

