

NetWare as a KVM Guest

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Why?

- Improve qemu-kvm's completeness
- another option to support legacy Novell NetWare customers
- I still enjoy working with NetWare

Background

- NetWare is an older OS. Final release v6.5 SP8 was in 2008.
- Launched from a DOS environment, or own boot loader (added in final 2 support packs).
- NetWare was virtualized to be a Xen PV guest
- KVM support would be nice!



Issues Found

- IDE driver - PIO vs DMA
- Other storage interfaces (ahci, megaraid, lsi hba) all had issues – not yet resolved
- Created virtio-blk driver – works ok with a seabios fix
- Networking: e1000 works fine, realtek and others have issues
- SMP implementation uses tight timing constraints for cpu startup/shutdown and NMI IPs which cause problems
- vga: std 800x600x256 has issues. Other resolutions are fine. cirrus doesn't work right, oh well.

Conclusion

- Almost usable – std vga fix is a must
- Fixes for non-working storage and network interfaces hopefully will come
- Look at how to address SMP problems
- Hopefully this will help make qemu-kvm better

