Always in the shadow: the history of Minix-vmd

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1987 Andy Tanenbaum releases MINIX 1.0
1990-11-02 Mail to Andy “Minix met TCP/IP versie 0.1”
1991-05-01 Mail to Bruce Evans about my VM implementation
1992-02-08 Mail with Kees Bot about his boot minitor 1.1
1992-05-07 Asynchronous I/O
1996-01-12 First mention of Minix-vmd?

1997-10-31
Message-ID: <uqlc36.r7o.ln@mega.am.cs.vu.nl>
From: kjb=731205@cs.vu.nl (Kees J Bot)
Newsgroups: comp.os.minix
Subject: Re: Individual source files?
Date: Fri, 31 Oct 1997 14:18:22 +0100
Organization: One Minix-vmd system, it works!
NNTP-Posting-Host: mega.am.cs.vu.nl

2000-04-07 MINIX open source!
History 3/3

- 2005 Start of MINIX3 project
- 2005-01-31 First VFS code in Minix-vmd
- 2009-06-25 First IPv6 code in Minix-vmd
“microkernel” improvements

- replyrec
- sys_findproc
- SYSSIGNON, MMSIGNON, FSSIGNON
Inet

- open/close/read/write/ioctl
- strict layering problem
- very strict multi-homing problem
- blocking listen problem
VM

- one single 4G address space
- copy-on-access (instead of copy-on-write)
fractional clock “divisor”
2016-01-25 19:47:18 noname tsd: avg. phase diff -1.74448 ms, avg. freq diff -0.0 107014 ppm, delay 6725 s, rate 19886.372179 (-4.47507e-09)
Improvements by kjb

- Boot monitor
- bioswini
- acd
- part, subpartitions, /dev/c#d#s#
- “flexible” directories
- queryparam
- CMOS calibration
Dogfood
home router (since 2001 permanently on over ADSL/VDSL)
ppp, first ISDN, then, pptp, now pppoe
ipv6, happy eyeballs experiments
DNS with nsd, unbound. DNSSEC
SSC
Mail

- smail (heavily hacked by kjb)
- my own blocklist
- my own virus scanner
- mh, antiword, lynx -dump, gpg
Usenet

- leafnode (heavily hacked)
- trn
Misc.

- ncsa httpd
- backups (synctree and remsync by kjb)
- script to make install CD/USB images bootable images (including source) at http://stereo.hq.phicoh.net/Minix-vmd/images/