

Linux live CD distribucije

kako, zašto i što je slijedeći korak?

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O čemu ćemo govoriti?

- kompleksna instalacija nekog rješenja na Linuxu
- Live CD
- Knoppix
- modifikacije
- Hacking Knoppix
- kako riješiti problem reboota i instalacije uz Windows
- virtualizatori i emulacije Linuxa
- coLinux
- početak jednog Open Source projekta?



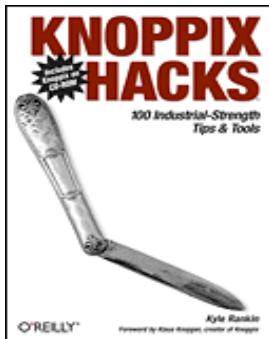


- Debian GNU/Linux
- PostgreSQL
- Apache
 - mod_gzip
- PHP
 - eAccelerator
 - Smarty
- MemCache
- swish-e
- 50Mb .tar.gz i duga lista ovisnosti
- instalacijski CD-ROM
- live CD (reboot)



Knoppix

- bootable CD
- automatska detekcija HW
- tmpfs za RW disk
- ~2G RO prostora



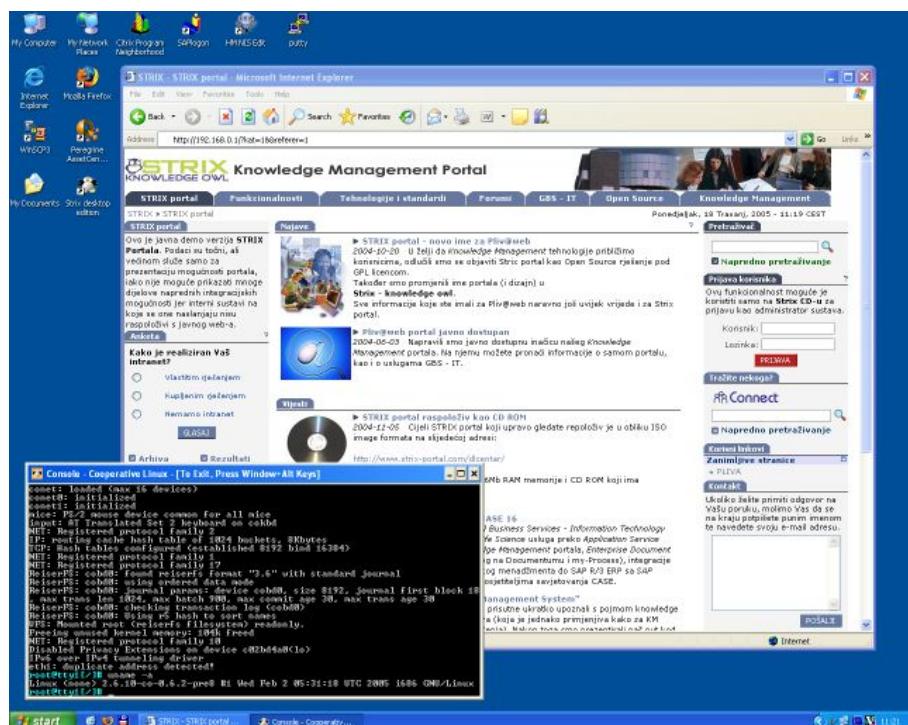
"Software-Patents" in Europe: The threat prevails

Soon the European Parliament and the Council of Ministers will again decide about the legalisation and adoption of so-called "software patents" in Europe, which are already used by large companies in other countries to put competitors out of business. This can lead to the termination of many software projects such as KNOPPIX, at least within Europe, because the holders of the over 30,000 already granted "software patents" (currently without a legal foundation) can claim exclusive rights and collect license fees for trivial things like "progress bars", "mouseclicks on online order forms", "scrolling within a window" and similar. That way, software developers will have to pay the "software-patentholders" for using these features, even in their own, completely self-developed applications, which can completely stall the development of innovative software for small and medium companies. Apart from this, the expense for patent inquiries and legal assistance is high, for even trying to find out if the self-developed software is possibly violating "software-patents", if you want to continue to market your software. Contrary to real patents, "software-patents" are, in the draft proposed by the commission, monopolization of business ideas and methods, even without any tangible technical implementation.

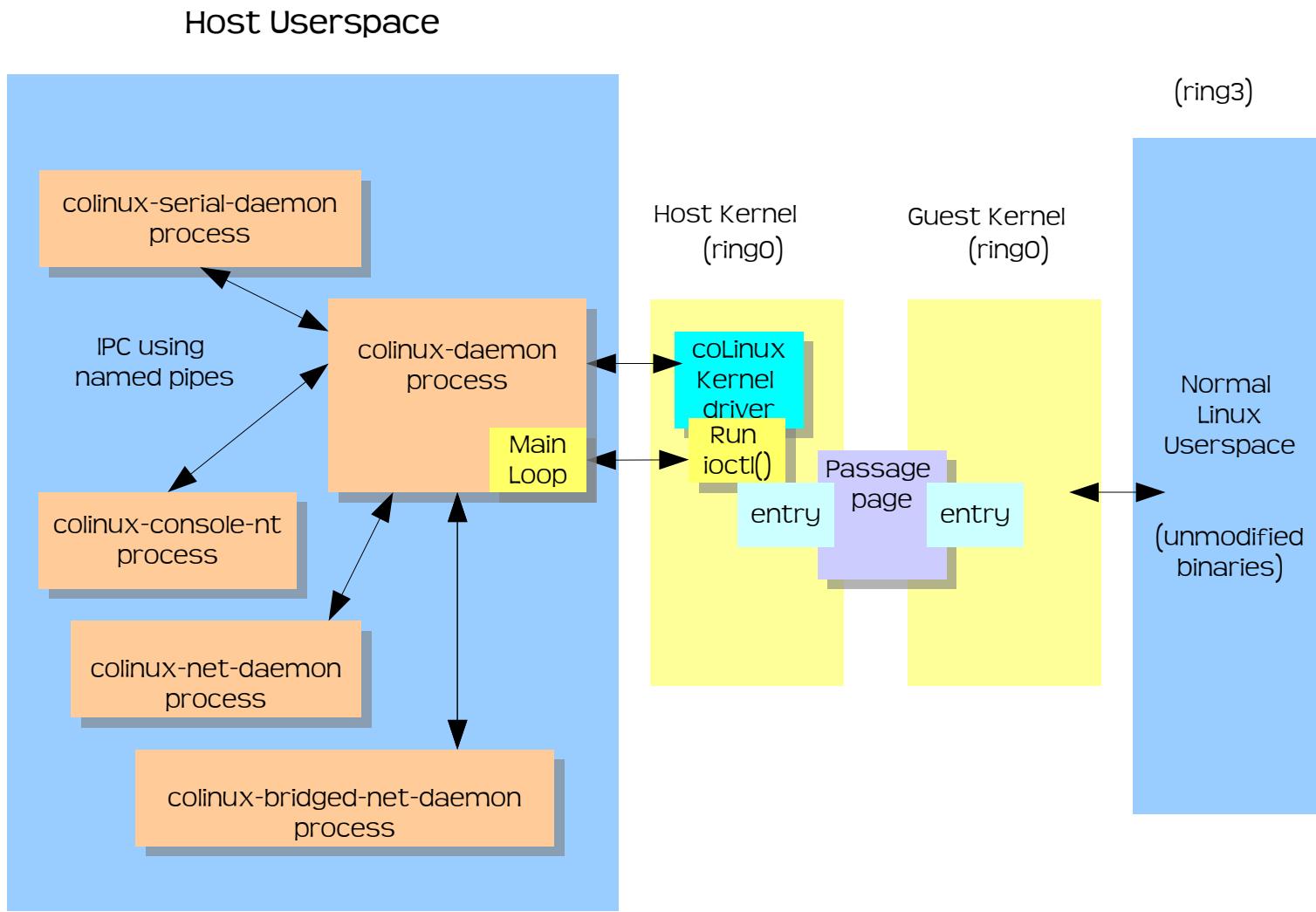


coLinux

- Linux kernel patch
- guest kernel u ringu 0 procesora
- ima fiksnu količinu memorije
- jednako brz kao native kod
- Win 2000/XP



Overview of the Cooperative Linux architecture





- native instalacija na Windowse
- zahtjeva posebno održavanje binarnih verzija svih korištenih projekata
- PostgreSQL performanse na Windowsima i Linux-u se razlikuju 10x
- postoji verzija za Windowse
- emulira cijeli x86 hardware (vmware-like), sporiji
- koristan kod testiranja ISO imagea



Testiranje na Linux-u

- chroot jail
 - hum, jesam li napisao ovu skriptu ispravno?
- user-mode-linux
 - slično coLinux-u, bootajte svoju distribuciju
- Xen
 - virtualna mašina sa posebnim kernelom
- QEMU
 - kernel moduli za bolje performanse



Open Source projekt?

- Jednostavna instalacija Knoppix bazirane distribucije na Windows korištenjem cOLinuX-a
- grafički setup program
 - Nullsoft Scriptable Install System
- kreira sparse disk image
- dekompresija cloop ISO filesystema na disk
- podešava mrežne postavke



coLinux setup

The image shows three windows from the Strix desktop edition 1.1-b27 installation process:

- Strix desktop edition 1.1-b27 Instalacija**:
 - Dobrodošli u instalaciju programa Strix desktop edition 1.1-b27**: Welcome screen with a logo of an owl and the text: "Instalacija programa Strix desktop edition 1.1-b27 na Vaše računalo sastoji se od nekoliko jednostavnih koraka kroz koje će Vas provesti ovaj čarobnjak. Preporučano zatvaranje svih ostalih aplikacija prije samog početka instalacije. To će omogućiti nadogradnju nekih sistemskih datoteka bez potrebe za ponovnim pokretanjem Vašeg računala. U svakom trenutku instalaciju možete prekinuti pritiskom na 'Odustani'. Za nastavak odaberite 'Dalje'."
 - I.1-b27 Instalacija**: Step 1 of the installation wizard.
- Strix desktop edition**:
 - coLinux setup**: Configuration options for coLinux installation.
 - THIS PAGE IS ONLY PREVIEW - disabled options doesn't work yet!**
 - Typical usage**:
 - try.on.my.desktop
 - Install for department
 - Performance and resources**: RAM for coLinux process: 128 MB
 - Storage requirements**:
 - Create swap file: 256 MB
 - Create database storage: 1024 MB
 - Create document storage: 1024 MB
 - Download Strix disk image: 1024 MB
 - Networking**:
 - virtual private - TAP
 - bridged - pcap
 - auto config - dhcp
 - IP: 192.168.0.40
 - router: 192.168.0.1
 - mask: 255.255.255.0
 - Location for all storage files:** c:\coLinux\
- Odredišna mapa**:
 - Path: E:\Program Files\Strix\
 - Pregledaj...** button
 - Potrebno prostora na disku: 6.5MB**
 - Slobodno prostora na disku: 4.6GB**



World domination!

- live CD-ROM za isprobavanje
- coLinux instalacija za Windows računala
 - manje grupe korisnika, nema Linux servera
- instalacija sa Live CD-a na disk
 - bolje performanse, više prostora



Pitanja?



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