

Curso GNU/Linux

Realização

CAECOMP – InfoJúnior

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Instalando Programas

Existem diversas maneiras de se instalar programas no Linux. Podemos dizer basicamente que elas se dividem em duas formas: baseadas em código fonte e baseadas em pacotes.

A forma mais simples de você arrumar um programa para instalar é através da internet, ou até mesmo em cd's de instalação de alguma distribuição. A vantagem de ser pela internet e no site do desenvolvedor, é que você estará instalando uma versão mais recente.

Instalando por código fonte

A mais tradicional e ausente na maior parte dos demais sistemas operacionais, é aquela onde se dispõe do código fonte do programa e a instalação consiste em compilar este código, gerando o código objeto (também chamado de binário ou executável).

Junto com o código fonte é fornecido um script para facilitar a compilação do programa. Geralmente, isto é feito utilizando-se a seguinte sequência de comandos, dentro do diretório do programa a ser compilado:

```
[user@linux programa] $ ./configure
[user@linux programa] $ make
[root@linux programa] # make install
```

Note que para o comando `make install`, é necessário que você esteja como root, pois o mesmo comando irá copiar para o diretório `/usr` o programa compilado.

Não é necessário sempre instalar o programa após compilá-lo, você (depende do programa), pode utilizá-lo diretamente do diretório aonde foi compilado.

Gerenciadores de pacotes

A segunda forma é baseada em pacotes, ou seja, o programa já compilado (código objeto ou executável) é "empacotado", junto com os demais arquivos que sejam necessários para seu funcionamento.

Existem diversos tipos de pacotes, como rpm (usado pela Red Hat e derivados), deb (Debian e derivados) e tgz (Slackware). Aqui vale uma

observação: existe uma certa confusão entre os formatos `tgz` e `tar.gz`. O primeiro é o formato dos pacotes de programas utilizado pelo Slackware, enquanto o segundo são apenas arquivos agrupados pelo comando `tar` e compactados com `gzip`.

Praticamente todas as principais distribuições de Linux utilizam algum programa gerenciador de pacotes, existindo também programas para conversão de um tipo de pacote em outro. Exemplos de gerenciadores de pacotes: `RPMDrake`, `GnoRPM`, `pkgtool`, etc. Exemplos de conversores de pacotes: `alien`, `rpmtotgz`, etc.

Para instalar um pacote rpm, basta digitar:

```
[root@linux tmp] # rpm -ivh programa.rpm
```

Outras opções do rpm:

Removê-lo: `[root@linux tmp] # rpm -e programa.rpm`

Pacotes instalados: `[root@linux tmp] # rpm -qa`

Informação sobre determinado programa instalado:

```
[root@linux tmp] # rpm -qi programa
```

Para instalar um .tgz (slackware):

```
[root@linux tmp] # installpkg programa.tgz
```

Para removê-lo: `[root@linux tmp] # removepkg programa.tgz`

Para executar o programa, basta digitar o nome do mesmo no console (terminal).

Compiladores

Utilizando compiladores no linux.

C/C++

Para compilar arquivos .c (programa.c) utilize o gcc :

```
[user@linux programa] $ gcc programa.c -o programa
```

A opção `-o` é para referenciar o nome do executável a ser gerado.

Se for em C++ (.cpp), basta trocar por g++ :

```
[user@linux programa] $ g++ programa.cpp -o programa
```

Java

Para usar o java, você deve fazer o download do mesmo na página da sun (java.sun.com) e descompactá-lo em um diretório qualquer. Após isso é necessário fazer com o que o seu interpretador de comandos (shell – bash) reconheça o Java e seu compilador (javac).

```
[user@linux programa] $ bash j2sdk-1_4_2_02-linux-i586.bin
```

```
[user@linux programa] $ cd j2sdk1.4.2_02/bin
```

```
[user@linux bin] $ pwd
```

```
/usr/local/j2sdk1.4.2_02/bin
```

```
[user@linux programa] $ PATH="$PATH:/usr/local/j2sdk1.4.2_02/bin"
```

Após isso é só digitar javac Arquivo.java para compilar.

Bibliografia

Ferreira, R., Linux: Guia do Administrador do Sistema, São Paulo, BR: novatec, 2003.

Cisneiros, H., "Manual do Linux", 2002.

Coutinho, A., "Curso de Linux Básico", versão 2, 2001.

Campos, A., "Introdução ao Linux", 2003.

Guia Foca Gnu/Linux , <http://focalinux.cipsga.org.br/>.

Relação de Softwares

Descrição do programa	Em Windows	No Linux
1) Networking.		
Web browser	Internet Explorer, Mozilla for Windows, Opera, ...	1) Mozilla . 2) Galeon . 3) Konqueror . 4) Opera . 5) Phoenix . 6) Nautilus . 7) Links . (with "-g" key). 8) Dillo . (Russian language patches - here).

Console web browser	Lynx for Windows	<ol style="list-style-type: none"> 1) Links. 2) Lynx. 3) w3m.
Email client	Outlook Express, Mozilla for Windows, Eudora, Becky	<ol style="list-style-type: none"> 1) Evolution. 2) Mozilla messenger. 3) Sylpheed, Sylpheed-claws. 4) Kmail. 5) Gnus. 6) Balsa. 7) Bynari Insight GroupWare Suite. [Proprietary]
Email client in MS Outlook style	Outlook	<ol style="list-style-type: none"> 1) Evolution. 2) Bynari Insight GroupWare Suite. [Proprietary]
Email client in The Bat style	The Bat	<ol style="list-style-type: none"> 1) Sylpheed. 2) Sylpheed-claws. 3) Kmail. 4) Gnus. 5) Balsa.
Console email client	Mutt for Windows (???)	<ol style="list-style-type: none"> 1) Pine. 2) Mutt. 3) Gnus.
News reader	Xnews , Outlook, Mozilla for Windows	<ol style="list-style-type: none"> 1) Knode. 2) Pan. 3) NewsReader. 4) Mozilla. 5) Sylpheed / Sylpheed-claws. <p>Console:</p> <ol style="list-style-type: none"> 6) Pine. 7) Mutt. 8) tin. 9) slrn.
Quick and free (of charge) browser in Opera style	Opera + crack	Phoenix.
Files downloading	Flashget, Go!zilla, Reget, Getright, ...	<ol style="list-style-type: none"> 1) Downloader for X. 2) Caitoo (former Kget). 3) Prozilla. 4) Wget (console, standard). 5) Aria. 6) Axel.
Sites downloading	Teleport Pro, ...	<ol style="list-style-type: none"> 1) Htrack. 2) WWW Offline Explorer. 3) Wget (console, standard). 4) Downloader for X. 5) Pavuk.

FTP-clients	Bullet Proof FTP, CuteFTP, ...	<ol style="list-style-type: none"> 1) Gftp. 2) Dpsftp. 3) KBear. 4) IglooFTP. 5) Nftp.
Console FTP-clients	FTP in Far, ftp.exe	<ol style="list-style-type: none"> 1) Ncftp. 2) Lftp. 3) mc. (cd ftp://...)
IRC-clients	Mirc, Klient, VIRC, Xircon, Pirc, XChat for Windows	<ol style="list-style-type: none"> 1) Xchat. 2) KVirc. 3) Irssi. 4) BitchX. 5) Ksirc. 6) Epic. 7) Sirc.
Local chat clients without server	QuickChat	Echat.
Local messaging with Windows machines	WinPopUp	<ol style="list-style-type: none"> 1) LinPopUp. 2) Kpopup.
Instant Messaging clients	ICQ, MSN, AIM, ... Trillian ICQ (freeware, can replace all common IM clients), Miranda	<ol style="list-style-type: none"> 1) Licq (ICQ). 2) Centericq (ICQ, console). 3) Alicq (ICQ). 4) Micq (ICQ). 5) GnomeICU (ICQ). 6) Gaim. (Supports nearly all IM protocols) 7) Kopete. 8) Everybuddy. 9) Simple Instant Messenger. 10) Imici Messenger. 11) Ickle (ICQ). 12) aMSN (MSN). 13) Kmerlin (MSN).
Jabber IM clients	JAJC , Tkabber (+activestate tcl) , Psi , Exodus , WinJab , myJabber, RhymBox, Rival, Skabber, TipicIM, Vista, Yabber	<ol style="list-style-type: none"> 1) Tkabber. 2) Gabber. 3) Psi. 4) Gaim.
Monitoring sites and mailboxes, displaying news headlines or full articles	WatzNew	Mozilla (???)
Video/audio conference	NetMeeting	GnomeMeeting.

Voice communication	Speak Freely	<ol style="list-style-type: none"> 1) Speak Freely for Unix. 2) TeamSpeak.
Firewall (packet filtering)	BlackICE, ATGuard, ZoneAlarm, Agnitum Outpost Firewall, ...	<p>iptables or more outdated ipchains (console, standard). Front ends:</p> <ol style="list-style-type: none"> 1) Kmyfirewall. 2) Easy Firewall Generator. 3) Firewall Builder. 4) Shorewall. 5) Guarddog. 6) FireStarter.
IDS (Intrusion Detection System)	BlackICE, Agnitum Outpost Firewall	<ol style="list-style-type: none"> 1) Snort. 2) Portsentry / Hostsentry / Logsentry.
Visual route	VisualRoute	<ol style="list-style-type: none"> 1) Xtraceroute. 2) VisualRoute for Linux. 3) Mtr.
Content filtering	Proxomitron, ATGuard, Agnitum Outpost Firewall, ...	<ol style="list-style-type: none"> 1) Squid. 2) Squidguard. 3) Privoxy. 4) JunkBuster. 5) Fork. 6) Mozilla (has a possibility to filter the content).
Traffic restriction	???	<ol style="list-style-type: none"> 1) IP Relay.
Traffic accounting	???	<ol style="list-style-type: none"> 1) Tcp4me. 2) Getstatd. 3) Ipacct. 4) Ipac-ng. 5) Ipaudit. 6) Lanbilling. 7) SARG (full Squid traffic). 8) Talinux.
Peer-to-peer clients / servers, file sharing	Morpheus (Gnutella), WinMX, Napster, KaZaA (Fasttrack), eDonkey / eMule , TheCircle	<ol style="list-style-type: none"> 1) LimeWire for Linux. (Gnutella) 2) Lopster. (OpenNAP) 3) Gnapster. (OpenNAP) 4) Mldonkey. (eDonkey) 5) eDonkey for Linux. (eDonkey) 6) cDonkey. (eDonkey) 7) Gift client / server (Fasttrack) 8) eMule. 9) ed2k_gui. 10) Gtk-Gnutella. 11) TheCircle.

Program for working with sound modem with many functions - from answerback and AON to fax device	Venta Fax, PrimaFax	<ol style="list-style-type: none"> 1) Gfax. (???) 2) PrimaFax for Linux. [Proprietary, 99\$] 3) mgetty + voice + sendfax.
Work with faxes	WinFax	<ol style="list-style-type: none"> 1) HylaFax. 2) Fax2Send. 3) Efax.
Dialup	Vdialer, etñ	<ol style="list-style-type: none"> 1) Kppp. 2) X-isp. 3) wvdial. (Front ends: X-wvdial, kvdial, gtkdial). 4) Gppp. 5) Kinternet. 6) Rp3.
FTN editor	Golded	<ol style="list-style-type: none"> 1) Golded. 2) Golded+. 3) Msged.
FTN tosser	FastEcho, hpt	<ol style="list-style-type: none"> 1) hpt. 2) CrashEcho.
FTN mailer	SF-Mail, T-Mail	<ol style="list-style-type: none"> 1) ifcico. 2) qico. 3) Bforce.
Remote management	VNC, Remote Administrator, Remote Assistance, Symantec pcAnywhere, Windows Terminal Server, Rdesktop	<ol style="list-style-type: none"> 1) VNC. 2) ssh. 3) Remote management is built-in in XFree86. 4) freeS/WAN.
Transmission of the files on modem	HyperTerminal, Terminate, etc	<ol style="list-style-type: none"> 1) minicom. 2) Mstern.
Work with ssh	Putty, Irlex	<ol style="list-style-type: none"> 1) Kssh. 2) ssh. 3) GTelnet. (Telnet, SSH, Rlogin)
Network monitoring tool	Dumeter, Netmedic	<ol style="list-style-type: none"> 1) Gkrellm. 2) Big Brother. 3) Etherape. 4) Nagios. 5) Tkined.
Network maintance tool	HP OpenView	<ol style="list-style-type: none"> 1) HP OpenView agents for Linux. [Proprietary] 2) Big Brother. 3) Cheops. 4) Tkined.

Protocols analysing	Sniffer, EtherPeek (TokenPeek, AiroPeek), Windump , Ethereal	1) Ethereal . 2) Tcpdump . 3) Etherape . 4) ipxdump. (+ipxparse for parsing)
Security scanner	???	1) Nessus. 2) Bastille .
Routing	???	1) Iproute2. 2) iptables or more outdated ipchains (console, standard).
Utilites and libraries for Ethernet/IP testing	lcrzo	lcrzo
2) Work with files.		
File manager in FAR and NC style	FAR, Norton Commander, etc	1) Midnight Commander . 2) X Northern Captain . 3) Deco (Demos Commander) . 4) Portos Commander .
File manager in Windows Commander style	Total Commander (former Windows Commander)	1) Midnight Commander . 2) Krusader . ~1.3 Mb. Suitable GUI file manager for KDE. Support archiver, FTP with suitable notebook, Samba, built-in editor and graphics viewer. 3) Kcommander . 4) FileRunner (written on TCL/TK). 5) Linux Commander. 6) LinCommander . 7) Rox. 8) Emelfm .
File manager in Windows style	Windows Explorer	1) Konqueror . 2) Gnome-Commander . 3) Nautilus . 4) Endeavour Mark II . 5) XWC .
Quick viewing of local HTML documents	Internet Explorer	1) Dillo . (Russian language patches - here). 2) Konqueror . 3) Nautilus . 4) Lynx / Links .
Viewing all operations with files	Filemon	Filemon for Linux .
Work with UDF	Roxio (former Adaptec) UDF Reader, Roxio Direct CD	Linux-UDF .

Work with multi session CD + recovering information - from faulty multi session disks

[CDFS](#).

3) Desktop / System software.

Text editor	Notepad, ...	<ol style="list-style-type: none"> 1) Kedit (KDE). 2) Gedit (Gnome). 3) Gnotepad. 4) Kate (KDE). 5) KWrite (KDE). 6) Nedit. 7) Vim, Emacs. 8) pico, joe (console). 9) Fte (console).
Source code editor	SciTE , MultiEdit, Editor in DOS Navigator	<ol style="list-style-type: none"> 1) Kate (KDE). 2) Nedit. 3) CodeCommander. 4) SciTE. 5) Mcedit (comes with mc). 6) Vim, Emacs.
Text editor with cyrillic encodings support	Bred, Rpad32, Aditor	<ol style="list-style-type: none"> 1) Kate (KDE). 2) Nedit. 3) Fte (console). 4) Patched version of Midnight Commander. 5) Vim, Emacs.
Work with compressed files	WinZip, WinRar	<ol style="list-style-type: none"> 1) FileRoller. 2) Gnozip. 3) LinZip. 4) Ark (kdeutils). 5) KArchiveur. 6) Gnohive. 7) RAR for Linux.
Viewing PDF	Adobe Acrobat Reader	<ol style="list-style-type: none"> 1) Acrobat Reader for Linux. 2) Xpdf. 3) GV.
Creating PDF	Adobe Acrobat Distiller	<ol style="list-style-type: none"> 1) Adobe Acrobat Distiller for Linux. 2) PStill. 3) PDFLatex.
Crypto	PGP	<ol style="list-style-type: none"> 1) PGP. 2) GnuPG.
Crypto of the disc volumes	EFS (standard), PGP-Disk, BestCrypt, Private Disk Light	<ol style="list-style-type: none"> 1) CFS. 2) TCFS. 3) BestCrypt.

Task scheduler	mstask, nnCron	cron, at (standard, console).
Text recognition (OCR)	FineReader (cyrillic)	1) ClaraOcr. 2) Gocr.
Translators (cyrillic)	Prompt, Socrat	???
Eng-rus dictionaries (cyrillic)	ABBYY Lingvo, Socrat	1) Mueller. 2) Ksocrat. 3) dict+Kdict. 4) DictX. 5) Groan. 6) Mova. 7) Slowo.
Work with scanner	Programs on CD with scanner	1) Xsane. 2) Kooka.
Antivirus	NAV, Dr. Web, Kaspersky, ...	1) RAV Antivirus. [Proprietary] 2) Dr. Web for Linux. [Proprietary] 3) Kaspersky for Linux. [Proprietary] 4) VirusHammer.
System configuration	Msconfig	1) setup in Red Hat Linux. 2) redhat-config- . The graphic configurators in Redhat 8.0. 3) Linuxconf. 4) Drakeconf. 5) Webmin. 6) yast and yast2 in SuSE. 7) sysinstall in FreeBSD. 8) /dev/hands :).
Boot managers	System Commander, PowerQuest Boot Magic, ...	1) Grub. 2) Lilo. 3) ASPLoader. 4) Acronis OS Selector [Proprietary]. 5) Ranish Partition Manager. 6) osbs. 7) Symon. 8) Smart Boot Manager.
Hard disk partitions manager	PowerQuest Partition Magic	1) fips. 2) GNU Parted. (GUI - QTParted). 3) Diskdrake (Mandrake). 4) Paragon Partition Manager [Proprietary].
LVM + soft-RAID + parted + ...	-	EVMS.

Backup software	ntbackup (standard), Legato Networker	1) Legato Networker . 2) Lonetar . 3) Disk Archive . 4) Bacula . 5) Taper .
Making images of disk partitions	DrivelImage, Ghostpe	1) PartitionImage .
Task manager	TaskMan (standard), TaskInfo, ProcessExplorer NT.	1) top (the console, standard). 2) Gtop, Ktop, ...
Mouse gestures	Sensiva	Kgesture.
Text to speech	MS text to speech	1) KDE Voice Plugins . 2) Festival .
Voice recognition	ViaVoice, DragonNaturally Speaking	1) ViaVoice. 2) Sphinx .
Program for files comparison	Araxis Merge	1) WinMerge . 2) Mgdiff. 3) diff, patch.
Stream text editor?	???	sed, awk.
PIM / DB / notebook with tree view	TreePad Lite, Leo	1) TreePad Lite for Linux . 2) Yank . 3) TreeLine. 4) Gjots . 5) Leo .
Program for quick switching between resolutions and frequencies	Integrated with system, comes on CD with video card	Multires for Linux .
Program for meta search	Integrated with system, Indexing service	find (console, standard). GUI: 1) Gsearchtool. 2) Kfind.
System monitoring	System monitor (integrated with system)	1) Gkrellm .
Program for logs viewing	???	1) Xlogmaster . 2) Fwlogview . (firewall)
Data Recovery Tools	R-Studio (supports Linux partitions)	1) e2undel . 2) myrescue . 3) TestDisk . 4) unrm . 5) Channel 16 .
Text files encoder with automatic detection of character set	Total Recoder, ...	1) Enca .

4.1) Multimedia (audio / CD).

Music / mp3 / ogg players	Winamp	<ol style="list-style-type: none"> 1) XMMS (X multimedia system). 2) Noatun. 3) Freeamp. 4) Winamp for Linux. 5) Xamp. 6) GOMpeg. 7) SnackAmp.
Console music / mp3 / ogg players	mpg123 for Windows, dosamp	<ol style="list-style-type: none"> 1) mpg123 / ogg123. 2) mpg321. 3) Orpheus.
Programs for CD burning with GUI	Nero, Roxio Easy CD Creator, ...	<ol style="list-style-type: none"> 1) K3b. (KDE) 2) XCDRoast. 3) KOnCd. 4) Eclipt Roaster. 5) Gnome Toaster. 6) CD Bake Oven. 7) KreateCD. 8) SimpleCDR-X. 9) GCombust.
CD player	CD player	<ol style="list-style-type: none"> 1) KsCD. 2) Orpheus. (console)
Slowing the rotation of CD	Slowcd, Cdslow	<ol style="list-style-type: none"> 1) hdparm -E 2) eject -x 3) cdspeed.
CD ripping / grabbing	Windows Media Player, AudioGrabber, Nero, VirtualDrive, VirtualCD, ...	<ol style="list-style-type: none"> 1) Grip. 2) Audacity. 3) RipperX. 4) tkcOggRipper. 5) cdda2wav. 6) Gnome Ooaster. 7) Cdparanoia. 8) Cd2mp3. 9) Dagrab. 10) SimpleCDR-X. 11) RatRip.
Midi-ïðíèãðúâàðåü / èàðâîèå	VanBasco	???
Mp3 encoders	Lame	<ol style="list-style-type: none"> 1) Lame. 2) Bladeenc. 3) NotLame. 4) L3enc. [proprietary]
Work with "Real" protocol	RealPlayer	RealPlayer for Linux .

Programs for receiving radio station	VC Radio, FMRadio, Digband Radio	<ol style="list-style-type: none"> 1) xradio. 2) cRadio. 3) Xmradio. 4) RDJ. 5) RadioActive. 6) XMMS-FMRadio.
Audio editors	SoundForge, Cooledit, ...	<ol style="list-style-type: none"> 1) Sweep. 2) WaveForge. 3) Sox. 4) Audacity. 5) GNUSound. 6) Ecasound.
Multitrack audio processor	???	<ol style="list-style-type: none"> 1) Ecasound.
Sound tracker	Fasttracker, ImpulseTracker	<ol style="list-style-type: none"> 1) Soundtracker. 2) Insotracker. 3) CheeseTracker.
Sound mixer	sndvol32	<ol style="list-style-type: none"> 1) Opmixer. 2) aumix. 3) mix2000. 4) Mixer_app (for WindowMaker)
Notes editors	Finale , Sibelius , SmartScore	<ol style="list-style-type: none"> 1) LilyPond. 2) Noteedit. 3) MuX2d.
Midi-sequencer	Cakewalk	<ol style="list-style-type: none"> 1) RoseGarden. 2) Brahms.
Music creation	Cakewalk, FruityLoops	<ol style="list-style-type: none"> 1) RoseGarden.
The Synthesizer?	Virtual waves	Arts Builder (???)
4.2) Multimedia (graphics).		
Graphic files viewer	ACDSee, IrfanView	<ol style="list-style-type: none"> 1) Xnview. 2) GQview. 3) CompuPic. 4) Kuickshow. 5) GTKSee. 6) pornview. 7) xv. 8) imgv. 9) Gwenview. 10) Gliv.
Viewing the graphic files in console	QPEG	zgv.
Simple graphic editor	Paint	<ol style="list-style-type: none"> 1) Kpaint. 2) Tuxpaint. 3) Xpaint.

Powerful graphic editor in PhotoShop style	Adobe Photoshop, Gimp for Windows , Paint Shop Pro	1) Gimp , FilmGimp . 2) ImageMagick.
Programs for work with vector graphics	Adobe Illustrator, Corel Draw 14, Freehand	1) Sodipodi . 2) xfig . 3) Sketch . 4) Karbon14 and Kontour . 5) OpenOffice Draw . 6) Dia . 7) Tgif . 8) Gestalter .
-	Corel Draw 9	Corel Draw 9 for Linux.
-	Corel PhotoPaint 9	Corel PhotoPaint 9 for Linux .
Program for text decoration	Wordart	OpenOffice Draw .
Program for ASCII-drawing	ANSI DRAW	CanvASCII .
Converting the graphic files in pseudographics	???	aalib.
Flash playing	Flash Player	1) Flash Player for Linux (???). 2) Plugin for Netscape/Mozilla (download here or here).
Flash creation	Macromedia Flash	???
Web-graphics creation	Macromedia Fireworks	Gimp . 1) Blender . 2) Maya . 3) KPovModeler . 4) K3Studio . 5) Moonlight. 6) GIG3DGO .
3D-graphics	3D Studio MAX	
The instrument for making the photographic quality scene based of ArchiCAD 3D-models	ArtLantis Render	???
Icon editor	Microangelo	1) Gnome-icongedit. 2) Kiconedit.
Small program for making screenshots	Integrated with system (PrintScreen), Snag it, ...	1) Ksnapshot. 2) Xwpick.
Drawing structure diagrams of the database	Access	1) Dia . 2) Toolkit for Conceptual Modelling .

4.3) Multimedia (video and other)

Video / mpeg4 players	BSplayer, Zoomplayer, Windows Media Player	1) Mplayer. 2) Xine. 3) Sinek. (frontend for libxine)
Console video / mpeg4 players	do not exist	Mplayer.
DVD players	PowerDVD, WinDVD, MicroDVD, Windows Media Player	1) Ogle. 2) Mplayer. 3) Xine.
On input - DVD disc. On output - several CDs with film in DivX.	Gordian Knot	Dvdrip.
Simple video creation and editing	Windows Movie Maker	1) iMira Editing. 2) MainActor. 3) Broadcast 2000.
Professional video creation and editing	Adobe Premiere, Media Studio Pro	1) iMira Editing. 2) Cinelerra. 3) MainActor. 4) Broadcast 2000. 5) Lives.
Cutting video	Virtual Dub	1) Avidemux. 2) Kino.
Converting video	Virtual Dub	Mencoder (from Mplayer).
Work with TV-tuner	AVerTV, PowerVCR 3.0, CinePlayer DVR, ...	1) Kwintv. 2) Xawtv. 3) Zapping. 4) GnomeTV.
Work with TV-tuner in console	-	1) fbtv (console) 2) aatv (console, tv in pseudographics with aalib)
Work with QuickTime format	QuickTime Player	1) QuickTime Player for Linux. 2) Mplayer + Sorenson codec.
Program for creation of 2D and 3D effects, animation and composition	Adobe After Effects	???
Landscape generation	Bryce	Terraform.
World construction	World Construction Set, Animatek World Builder	???

5) Office/business.

Office suite	MS Office, Openoffice for Windows	<ol style="list-style-type: none"> 1) Openoffice. 2) Staroffice. [Proprietary] 3) Koffice. 4) HancomOffice. [Proprietary] 5) Gnome Office. 6) Applixware Office. 7) Siag Office. 8) TeX, LaTeX, ...
Office suite	WordPerfect Office 2000	WordPerfect Office 2000 for Linux. (No longer available at Corel website. It was Windows version, running under Wine :).
Word processor	Word	<ol style="list-style-type: none"> 1) Abiword. 2) WordPerfect. 3) Ted. 4) OpenOffice Writer. 5) Kword.
Spreadsheets	Excel	<ol style="list-style-type: none"> 1) Gnumeric. 2) Abacus. 3) OpenOffice Calc. 4) Kspread.
Drawing graphs	Excel, ...	<ol style="list-style-type: none"> 1) Kivio (Koffice). 2) Dia. 3) KChart. 4) xfig. 5) Gnuplot. 6) GtkGraph.
Creating presentations	MS PowerPoint	OpenOffice Impress.
Local database	Access	<ol style="list-style-type: none"> 1) KNoda. 2) Gnome DB Manager. 3) OpenOffice + MySQL. 4) InterBase. 5) BDB.
Financial accounting package (global)	???	<ol style="list-style-type: none"> 1) Hansa Business Solutions. [Proprietary]
Financial accounting package (Russia)	"1C: Accounting"	<ol style="list-style-type: none"> 1) Hansa Business Solutions. [Proprietary] 2) IceB. 3) "Finances without problems". 4) Ananas. 5) E/AS.
Financial accounting package (India & Asia)	???	Kalculate. [Proprietary]

Personal finances manager	MS Money, Quicken	1) GNUcash. 2) GnoFin. 3) Kmymoney. 4) Grisbi.
Scheduling the business plan, management enterprise	MS Project, Project Expert 7	MrProject.
Automation of the enterprise (Russia)	"1C: Enterprise"	1) Keeper. [Proprietary] 2) Oblik. [Proprietary] 3) IceB. 4) Compiere.
Receiving the quotings, news, building graphs and analysing of the financial market.	Omega Research Trade Station 2000	???
Software for e-commerce and web business	Weblogic/Websphere/iPlanet	1) Weblogic for Linux. [Proprietary] 2) JBoss.
6) Games.		
Places where you can find, buy and download games	Anywhere you want :).	The Linux Game Tome (happypenguin.org) LinuxGames.com Kde Games Linux 3D Linux Game Publishing
The Linux Game List	-	http://www.icculus.org/lgfaq/gamelist.php
Games for Windows, that can be run under WineX	-	This is a search form , and this is a full list of games (very big!).
-	Tetris	1) LTris. 2) XWelltris.
-	Standard Windows games	Kdegames.
-	Mines	1) KMines. 2) Perlmines.
-	Civilization	FreeCiv.
-	Civilization: Call to Power	Civilization: Call to Power for Linux.
-	Sid Meyer Alpha Centauri	Sid Meyer Alpha Centauri for Linux.
-	Sim City 3000	Sim City 3000 for Linux.
-	Command&Conquer	FreeCNC.

-	Warcraft 2, Starcraft (?)	FreeCraft.
-	(Win)Digger	1) Digger. 2) XDigger.
-	Arkanoid, Zball, ...	Lbreakout2.
-	Quake 1, 2, 3	Quake 1, 2, 3 for Linux.
-	CounterStrike	CounterStrike for Linux (???)
-	Urban Terror	Urban Terror for Linux.
-	DOOM	1) Jdoom. 2) Zdoom. 3) DOOM Legacy. 4) LxDOOM. 5) PrBoom.
-	Return to Castle Wolfenstein	Return to Castle Wolfenstein for Linux.
-	Descent	Descent for Linux.
-	Never Winter Nights	Never Winter Nights for Linux.
-	Unreal Tournament / Unreal Tournament 2003	Unreal Tournament / Unreal Tournament 2003 for Linux.
-	Soldier Of Fortune	Soldier Of Fortune for Linux.
-	Tribes 2	Tribes 2 for Linux.
-	Worms	Nil.
-	Lines	GtkBalls.
Sony PlayStation emulator	ePSXe for Windows	ePSXe.
Racing	Need For Speed	Tux Racer :).
7) Programming and development.		
IDE	Microsoft VisualStudio .net	1) CodeForge. 2) Kdevelop + Qt3 Designer. 3) Glade + Motor or + xwpe or + any text editor. 4) Emacs, XEmacs.
Visual C++ IDE	Borland C++ Builder, MS Visual C	1) Anjuta + Glade + Devhelp. 2) KDE Studio. 3) Dev-C++. 4) Kylix. [Proprietary] (Kylix Personal Edition is free). 5) vtkBuilder. 6) foxBuilder. 7) wxDesigner.
C++ IDE	Borland Turbo C++ 3.0 for DOS	GCC + Motor.

Object Pascal IDE	Delphi	1) Kylix . [Proprietary] (Kylix Personal Edition is free). 2) Lazarus + FPC.
Pascal	Pascal, BP	1) FreePascal . 2) GNU Pascal. 3) RShell (in style of Borland Pascal 7.0)
Basic	Basic	1) Hbasic . 2) X-basic. 3) Yabasic . 4) SmallBASIC .
Prolog	VisualProlog, Mercury	1) GNU Prolog . 2) Mercury .
Assembler	TASM, MASM	1) NASM . 2) FLAT Assembler .
Reverse Engineering	SoftIce	The source code is open :)
Debugger	-	1) gdb. 2) ddd (frontend for gdb).
WYSIWYG html editor	Macromedia Dreamweaver, Frontpage	1) Mozilla Composer . 2) Openoffice HTML editor . 3) Amaya . 4) GINF (Ginf is not Frontpage) 5) IBM's WebSphere Builder (???)
Powerful editor for site creating, contains set of samples and can be complemented with every sort and kind of plug-ins	Dreamweaver Ultradev ???	
HTML editor	HomeSite	1) Quanta Plus . 2) Bluefish . 3) WebMaker . 4) Screem . 5) Toppage . 6) WebDesigner . 7) ScriptEditor .
HTML editor	Arachnofilia	Arachnofilia .
Visual Java development	JBuilder	1) Jbuilder for Linux . 2) NetBeans . 3) Eclipse . 4) Forte.
IDE for Oracle Database development	T.O.A.D., SQL Navigator, PL/SQL Developer	Tora .

CASE-facility for UML	???	<ol style="list-style-type: none"> 1) Umbrello UML Modeller. 2) Dia+Dia2Code. 3) PoceidonCE (community edition). 4) ArgoUML.
Top-level CASE system	Rational Rose.	Rational Rose for Linux. [Proprietary]
HEX-editor	Hiew	<ol style="list-style-type: none"> 1) Biew. 2) KHexEdit.
Clipper compiler and preprocessor	CA-Clipper	Clip.
Platform in dot-net style	M\$.Net	Mono.
Work with CVS	WinCVS, TortoiseCVS, cvs for Windows	<ol style="list-style-type: none"> 1) cvs (console). 2) Cervisia (KDE).
IDE for Interbase/Firebird development	IBExpert	???
8) Server software.		
Web-server	Internet Information Server, Apache for Windows	<ol style="list-style-type: none"> 1) Apache. 2) Xitami. 3) thttp. 4) tux.
FTP-server	Internet Information Server, ServU	<ol style="list-style-type: none"> 1) pure-ftpd. 2) vsftpd. 3) wu-ftpd. 4) proftpd. 5) ftp.
Language for Web-development	PHP for Windows	PHP.
Language for Web-development	Perl for Windows	Perl.
Language for Web-development	ASP	ASP module for Apache.
Database	MS SQL, MySQL for Windows	<ol style="list-style-type: none"> 1) Sybase Adaptive Server Enterprise. [Proprietary] 2) PostgreSQL. The most advanced open source database. 3) MySQL. The most popular open source database. 4) mSQL. 5) SAP DB.
Database	IBM DB2	IBM DB2 for Linux. [Proprietary]

Database	Oracle for Windows	1) Oracle . [Proprietary] 2) Linter . (cyrillic)
Database	Informix	Informix
Database	Borland Interbase	FireBird
Email server	MDaemon , Hamster	1) Sendmail . 2) Qmail . 3) Postfix .
		1) CommuniGate Pro . [Proprietary] 2) Bynari's Insight GroupWare Suite . [Proprietary] 3) Samsung Contact . [Proprietary] 4) Teamware Office for Linux . [Proprietary] 5) Novell Netmail . [Proprietary] 6) Amphora . Based on zope and qmail. 7) Tutos . Based on Linux / Apache / PHP / Mysql / Sendmail. 8) Kroupware . The project from the KDE PIM developers, which is being financed by the government of Germany. 9) SuSe Linux Openexchange Server . [Proprietary] 10) phpGroupWare . [Proprietary] 11) SCOoffice Mail Server . [Proprietary]
Email + Groupware	Microsoft Exchange	
Mail filter / spam killer	???	1) SpamAssassin . 2) Procmail. 3) Mailfilter. 4) Nyrus-imap.
Mail downloader	MDaemon	Fetchmail.
???	Lotus Domino for Windows	Lotus Domino for Linux . [Proprietary]
Server / router on one diskette.	Impossible	As much as you want :). 1) muLinux . 2) Dachstein (firewall / dhcp). 3) Serverdisk (http / ftp).
Proxy server	MS Proxy Server, WinGate	1) Squid . 2) Paco . 3) Privoxy .

Server for supporting Java Servlets è JSP, can work with Apache	Tomcat	Tomcat.
9) Scientific and special programs.		
Math system in MathCad style	Mathcad	Gap.
Math system in Matlab style	Matlab	<ol style="list-style-type: none"> 1) Matlab for Linux. [FTP] 2) Octave + Gnuplot. 3) Scilab. 4) R. 5) Yorick. 6) rlab. 7) Yacas - small and flexible general-purpose algebraic computer system.
Math system in Mathematica style	Mathematica	<ol style="list-style-type: none"> 1) Mathematica for Linux. 2) Maxima. 3) MuPad.
Math system in Maple style	Maple	<ol style="list-style-type: none"> 1) Maple for Linux. 2) Maxima. 3) MuPad.
Extended equation editor	Mathtype, MS Equation Editor	OpenOffice Math.
Programs for three-dimensional modeling	SolidWorks, ...	ProEngineer Linux.
ditto	CATIA for Windows	CATIA. It was designed under Unix, and from version 4 (2000) it was ported under Windows (not too successfully).
ditto	SolidEdge for Windows	SolidEdge (part of more powerful package Unigraphics).
Engineering	ANSYS for Windows	ANSYS.
CAD/CAM/CAE	Autocad, Microstation	<ol style="list-style-type: none"> 1) Linuxcad. [Proprietary, ~100\$] 2) Varicad. [Proprietary]
CAD/CAM/CAE, simplified	ArchiCAD	Qcad.
Desktop Publishing Systems	Adobe PageMaker, QuarkXPress	???
Small desktop publishing systems	MS Publisher	<ol style="list-style-type: none"> 1) Scribus - Desktop Publishing for Linux. 2) KWord.

Diagram and chart designer	Microsoft Visio	1) Kivio (Koffice) . 2) Dia . 3) KChart. 4) xfig . 5) Tgif + dotty. 6) Tulip.
Geographic image processing software	Erdas Imagine, ER Mapper , ENVI	ENVI for Linux.
GIS (Geographical information system)	ArcView	1) Grass . 2) Quantum GIS .
Vektorizator of raster maps	MapEdit, Easy Trace	???
Advanced text processing system in TeX style?	MikTeX, emTeX (DOS)	1) TeX. 2) TeTeX / LaTeX 3) Lyx (WYSIWYM). 4) Kile.
Convenient, functional and user-friendly TeX-files / dvi-files editor.	WinEdt	1) Ktexmaker2. 2) Tk LaTeX Editor . 3) Texmacs.
Statistical analysis	Statistica	<u>"Probability and Statistics Utilities for Linux users"</u>
Emulation of the circuit	Electronic Workbench	1) Geda. 2) Oregano. [Proprietary]
Downloader and player for Olympus dictophone	Olympus DSS Player	???
Market analysis	MetaStock	???
Electronics scheme design	PCAD	1) Eagle . 2) Geda.
The oscilloscope emulation	Winoscillo	Xoscope.
Measurement of the temperature and voltages on motherboard	MBMonitor, PCAlert	KHealthCare (KDE).
S.M.A.R.T-attributes and temperature of the hard disk	Come on CD with mainboard, Active SMART	1) smartctl. 2) Hddtemp-0.3 . 3) IDEload-0.2 . 4) Smartsuite-2.1 . 5) Smartmontools . 6) Ide-smart . 7) Smartsuite .
Memory testing	SiSoft SANDRA	Memtest86 .

Program for watching temperatures, fanspeeds, etc	SiSoft SANDRA, SiSoft SAMANTHA	1) Ksensors . 2) Imsensors .
HDD testing / benchmarking	SiSoft SANDRA, SiSoft SAMANTHA	1) hdparm . 2) Bonnie++ . 3) Izone . 4) Dbench .
Video testing / benchmarking	Final Reality	1) X11perf . 2) Viewperf .
10) Other / Humour :) 		
System, running from CD without installing (Live CD)	Impossible	1) Knoppix . 2) Cool Linux . 3) Blin . 4) DemoLinux . 5) DyneBolic . 6) Gentoo (live CD with UT2003) . 7) Lonix . 8) Freedom Linux . 9) Virtual Linux .
Boot rescue/tools diskette	Windows system diskette	1) Linux system diskette. 2) Tomsrtbt . 3) BanShee Linux .
File systems mount	ext2fs (driver), explore2fs (program) - ext2/3 under Windows	Linux-NTFS . (driver for NTFS partitions mounting)
Sharing data/files	Windows shares	Samba.
???	Windows Domain, Active Directory	1) Samba. 2) Ldap. 3) yp.
Viewing Windows-network	Network neighborhood	1) Samba. 2) KDE Lan Browser, lisa 3) LinNeighborhood. 4) xSMBrowser .
Installing software and uninstalling	InstallShield, WISE, GhostInstaller, Microsoft Installer - the analog of rpm	1) Rpm & frontends. 2) Urpm. 3) Apt & frontends (synaptic, ...).
Installing software from source and uninstalling	-	1) make install, make uninstall 2) CheckInstall . 3) Sinstall .

System update	Windows Update	<ol style="list-style-type: none"> 1) Ximian Red Carpet. 2) Red Hat Network. 3) MandrakeOnline. 4) SuSE YaST Online Update. 5) Caldera Volution Online. 6) Apt. 7) Gentoo ebuilds (portage). 8) Yum.
Certification	MCSD, MCT, MCSE	<ol style="list-style-type: none"> 1) Red Hat Certification. 2) Sair Linux and GNU Certification. 3) Linux Professional Institute Certification (LPIC). 4) Linux+. 5) Prometric. 6) VUE.
ZX Spectrum emulator	UnrealSpeccy	<ol style="list-style-type: none"> 1) Xzx. 2) Glukalka. 3) Fuse.
Virtual machines	VMWare for Windows	<ol style="list-style-type: none"> 1) VMWare for Linux. [Proprietary] 2) Win4Lin. 2) FreeMWare. 3) Bochs.
Work with Palm	Palm Desktop	<ol style="list-style-type: none"> 1) Kpilot. 2) Jpilot.
Allows to carry on Palm .html files	iSilo	<ol style="list-style-type: none"> 1) iSilo for Linux. 2) Plucker.
Optimization	WinBoost, TweakXP, Customizer XP, X-Setup, PowerToys, etc	Powertweak-Linux.
IP-telephony	???	Openh323.
Bible	On-Line Bible, The SWORD	<ol style="list-style-type: none"> 1) BibleTime (KDE) 2) Gnomesword (Gnome)
Icons on desktop	Explorer	<ol style="list-style-type: none"> 1) Desktop File Manager. 2) Idesk.
Screensaver	Desktop properties	xset.
Place for keeping "removed" files	Trash	Trash Can.
Checking the hard disk	Scandisk	fsck -check or reiserfsck -check.
GUI of the system	Windows Explorer	Kde, Gnome, IceWM, Windowmaker, Blackbox, Fluxbox, ...

Windows 9x GUI	Windows 9x	Macrosoft Desktop Environment.
Windows XP GUI	Windows XP	XPde.
Flavors of the sytem	9x, NT, XP	RedHat, Mandrake, ALT, Knoppix, Debian, SuSE, Gentoo, Slackware, ...
Tactics	FUD (fear, uncertainty, doubt)	Open Source!
Source code of the kernel freely available	No	<u>Of course :)</u>
Command interpreter	command.com :), cmd.exe, Windows Scripting Host	1) Bash. 2) Csh. 3) Zsh. 4) Ash. 5) Tcsh.
Linux console emulator	1) CygWin. 2) MKS Toolkit. 3) Bash for Windows.	-
X Window System (XFree) emulator	XFree under CygWin	-
Windows emulator	-	1) Wine. 2) Transgaming WineX. 3) Crossover Office.
Free of charge operating system	Microsoft Windows. (Imagine yourself that in Russia there are 95% of users having a pirate copy of Windows :).	Linux - the Free operating system!!
-	Nimda	Slapper.
-	Wincih, klez, etc	No analogs
Backdoors and hidden keys	Decide it yourself :).	-
Easter eggs , undocumented possibilities	Logo with Windows developers, Doom in Excel 95, 3D-racing in Excel 2000, etc, etc...	-
The magazines	Windows Magazine	1) Linux Journal. 2) Linux Gazette. 3) Linux magazine, Linux pratico (Italy)
-	Blue Screen Of Death (BSOD)	1) Kernel panic. 2) Screensaver "bsod" :).

Whom it is necessary to curse for bugs and defects of the system	M\$, Bill Gates personally	1) Developers of the distribution. 2) All the Linux people and Linus Torvalds personally :). 3) Yourself and your own / dev/hands :)).
-	M\$.com	GNU.org , FSF.org
-	Windows.com	Linux.org
-	Bill Gates, "Road ahead"	Linus Torvalds, "Just for fun" :).
-	Bill Gates, "Business @ the speed of thought"	Richard M. Stallman, "The right to read".