

Linux Demo Day

February 4, 2006

Welcome!

What is an Operating System?

- Software necessary to run applications on a computer

What is an Application?

- Program that a normal person can use to do something useful

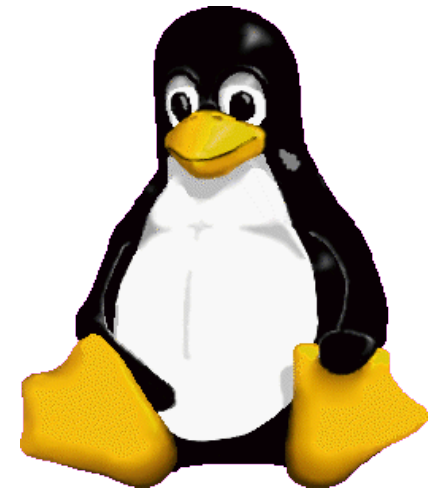
Something Useful

- $2 + 2 = ?$

Kernel

Kernel

- Indian name: *Talks To Hardware*
- Normal people cannot use it directly
- Linux kernel created and managed by Linus Torvalds

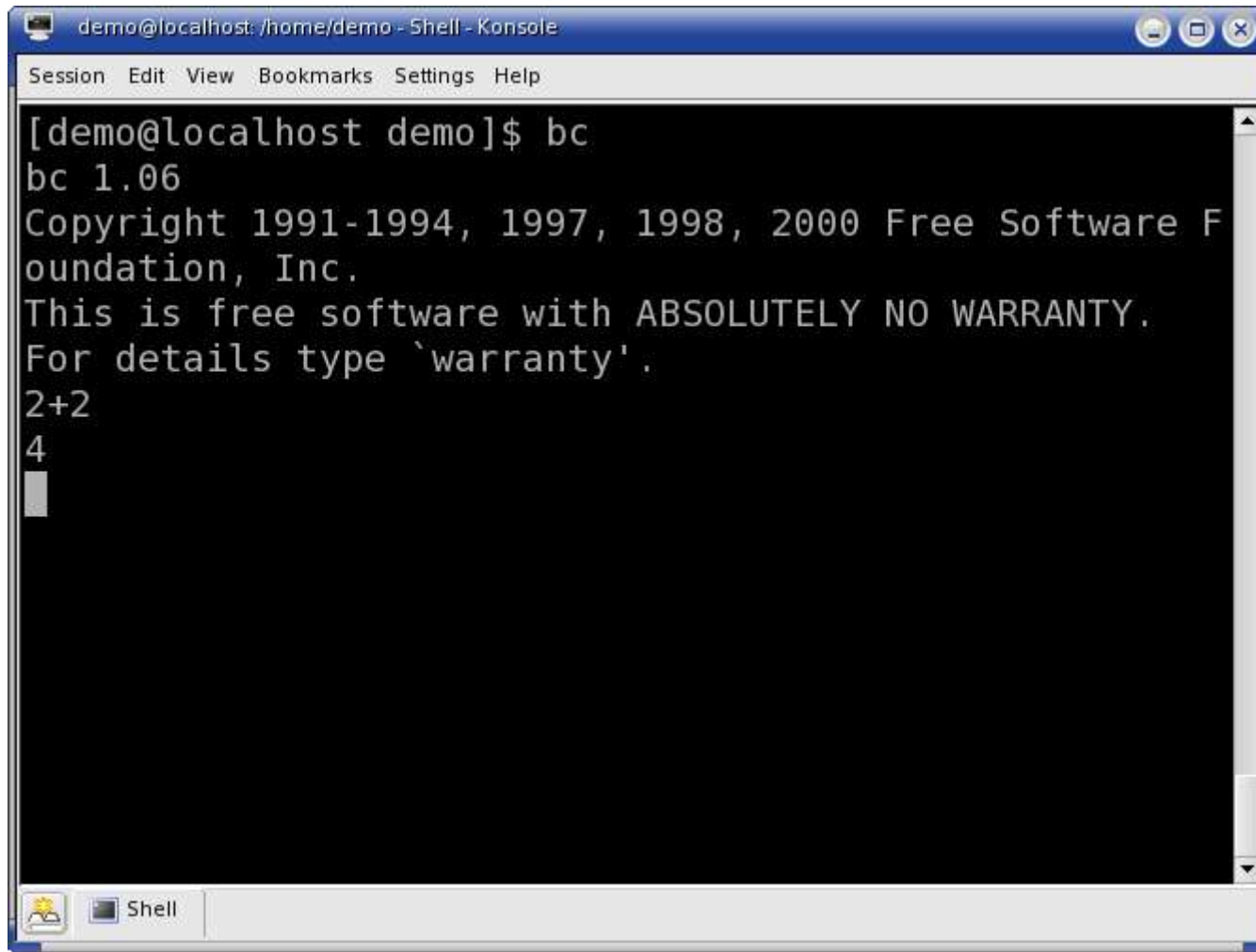


System Software

- “Rest of the OS” - programming utilities, basic commands
- GNU: GNU's Not Unix
- Richard Stallman/Free Software Foundation



Demo



```
demo@localhost: /home/demo - Shell - Konsole
Session Edit View Bookmarks Settings Help
[demo@localhost demo]$ bc
bc 1.06
Copyright 1991-1994, 1997, 1998, 2000 Free Software F
oundation, Inc.
This is free software with ABSOLUTELY NO WARRANTY.
For details type `warranty'.
2+2
4
█
```

The screenshot shows a terminal window titled "demo@localhost: /home/demo - Shell - Konsole". The window has a menu bar with "Session", "Edit", "View", "Bookmarks", "Settings", and "Help". The terminal content shows the user entering the command "bc" at the prompt "[demo@localhost demo]\$". The output of the command is "bc 1.06", followed by copyright information: "Copyright 1991-1994, 1997, 1998, 2000 Free Software Foundation, Inc." and a disclaimer: "This is free software with ABSOLUTELY NO WARRANTY. For details type `warranty'." The user then enters "2+2" and the terminal outputs "4". A cursor is visible on the line following the output.

X Window System

- a.k.a. “X”
- Indian name: *Talks To Video Hardware*



Window Manager

- Title bars/window decorations
- Move/resize windows
- Application menu/taskbar



Desktop Environment

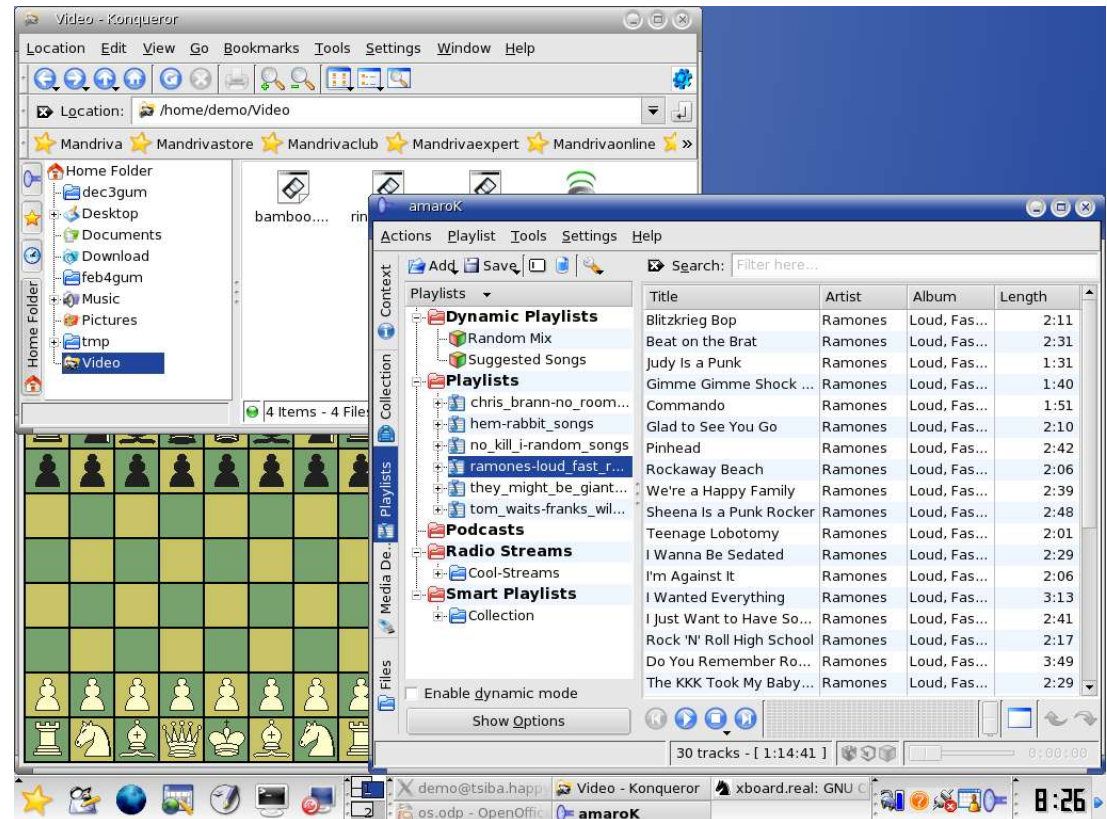
- Drag-and-drop
- Advanced cut-and-paste
- Most popular are KDE and GNOME

Demo



It's Modular

- Development
- Safety



Distributions

- Linux kernel + GNU utilities + X Window System + desktop environment + applications
- Red Hat
- SUSE/Novell
- Debian
- Mandriva
- Knoppix
- Ubuntu
- MEPIS