

Where Would You Like 100,000 Users to Go Today?

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Mars?

Direct Reception of Signals from Mars



- G3WDG successfully receiving signals from Mars...
 - Mars Odyssey and Mars Express both heard directly
 - 3m dish, 0.8dB noise figure, 84k system noise temperature

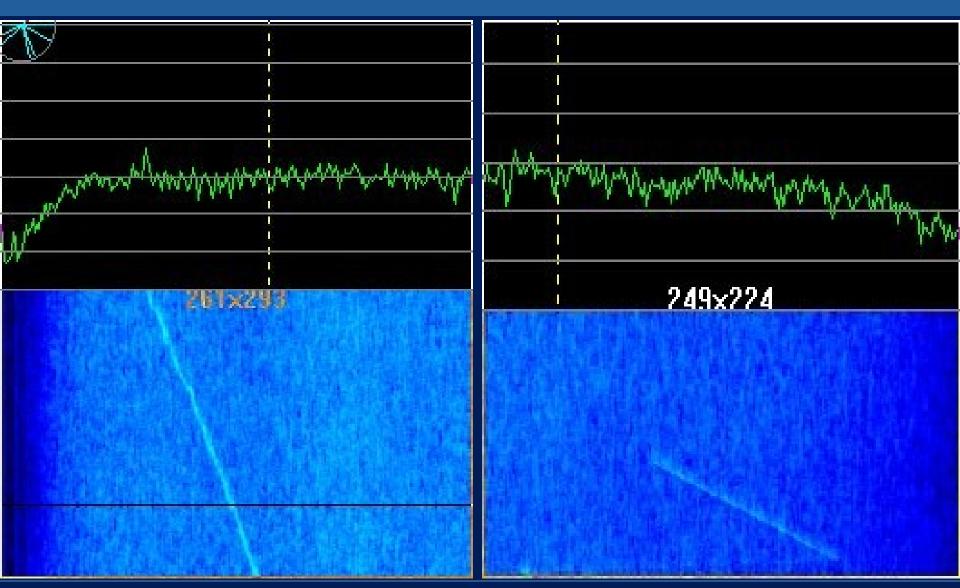




Mars Odyssey, and...

Mars Express...









- Try something a little different ... well, ok, maybe not all that different...
- Report on some very exciting things I've seen during my travels to speak about Linux around the world
- Share my conjectures about underlying motivations
- In the process, perhaps you'll come to understand why I remain so undauntably optimistic about the future of Free Software and the positive impact that our collected work is having.





- The dictionary says that a "Commons" is:
 - A public pasture ground
 - A piece of open land for recreational use in an urban area
- Governments as caretakers of various commons.
- The provisions of licenses like the GPL, and the community development model that they encourage, create a commons for software.
- The Tragedy of the Commons
 - an idea at least as old as Aristotle
 - popularized by Garrett James Hardin, 1915-2003
 - assumes that the resources of the commons are limited
- The Free Software commons has no such limitations!

Community



- The dictionary defines "community" as:
 - A body of people having common rights, privileges, or interests, or living in the same place under the same laws and regulations.
 - Of common character, likeness, frequency
- The Internet enables the formation of a new class of communities that could not previously exist.
 - People with common interests or values
 - Potentially broadly geographically distributed
- Inability to participate in the growing society of Internetenabled communities is a fundamental problem, often called the "digital divide"

On my first trip to Brazil...



- A startling thing happened when I walked onto the vendor floor at the Forum International Software Livre...
- A representative of the city government handed me a CD, the label of which said "Porto Alegre GNU/Linux", with four interesting logos on it:
 - Debian-RS
 - The City of Porto Alegre
 - The State of Rio Grande do Sul
 - The Country of Brazil
- Several thousand copies have been distributed to citizens of the region (3000 at FISL 2003 alone!).
- The former governor of this state is now the president...

Extremadura



- A region in the South-West of Spain, near the Portugese border, with a population of about one million people.
- One of the poorest regions in Spain, facing difficult economic challenges.
- A place where 80,000 Linux desktop computers have been deployed, one for every two students in the public school system!
- A model for successful large-scale Linux deployments in government and education that many hope to duplicate.





- There was nothing "quick" or "easy" about how the government of Extremadura went about this deployment!
 - 5 years, designing and implementing comprehensive plans
- LinEx is the Debian-derived Linux distribution created in Extremadura as a key component of their Technology Literacy Plan, and the Educational Technology Network project started in 1998.
- Beyond traditional localization, interface menus apply local dialect and idiom...
- In addition to 80,000 desktops deployed in the schools, over 20,000 live-run CDROMs have been distributed to ordinary citizens!

Andalucia



- The region of Spain including Seville
- Planning an Extremadura-like massive Linux deployment
- Building a Debian-derived distribution of their own, starting with LinEx and using Metadistros.
- www.guadalinex.org
- Over 30,000 CDROMs deployed to ordinary citizens, in advance of the planned educational and government office deployments...
- And other regions of Spain, like the Canary Islands, are watching and planning similar deployments...



Debian?

What is Debian?



- 'The Debian Project is an association of individuals who have made common cause to create a free operating system.'
- More specifically, Debian:
 - is one of the most popular GNU/Linux distributions
 - runs on the most architectures
 - is a completely open volunteer organization
 - is quite international
 - is the largest GNU/Linux distribution
 - works with companies to develop and maintain software
 - is Focused on Freedom
 - is well represented in the Free Software world

Evolution of the Debian Community



- Ian Murdock's Debian Manifesto attracted people excited by the idea of Free Software to join the project
- The Social Contract and associated Debian Free Software Guidelines articulated the core set of shared values of the growing Debian community. Acceptance of these values became a criteria for acceptance into the community.
- As the community continued to evolve, a constitution was drafted to clarify roles and responsibilities, and to provide for conflict resolution and decision making.
- The Debian community continues to evolve, but the results already speak for themselves...

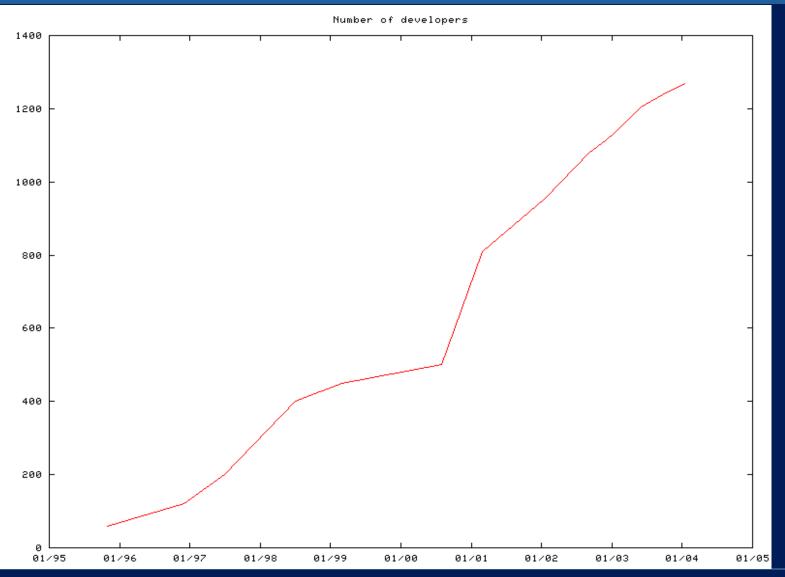
A Few Debian Statistics



- Debian runs on everything from handhelds to mainframes
- 11 released architectures
 - alpha arm hppa i386 ia64 m68k mips[el] powerpc s390 sparc
- port underway to AMD Opteron
- also working with HURD and BSD kernels
- Debian's technology, policies, and packages form the basis for a rich variety of custom and derived distributions.
 - 1268 people
 - 8103 source packages
 - 13739 binary packages

Number of Debian Developers





16 January 2004

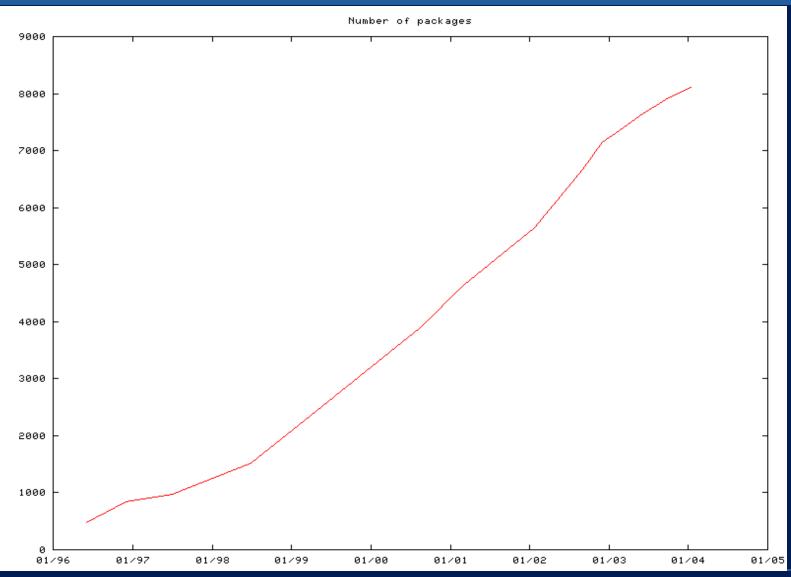
Map of Debian Developers





Number of Debian Source Packages





16 January 2004

Map of Debian Users







- Linux Journal 2003 Readers' Choice Awards
 Debian won the category of "Favourite Distribution"
- Linux Enterprise Reader's Choice 2003
 - Debian won the category "Best Enterprise Distribution"
- Linux New Media Award 2003
 - Debian won the category "Best Distribution"
 - Along with Knoppix, which is derived from Debian, they received more than 60% of the votes.



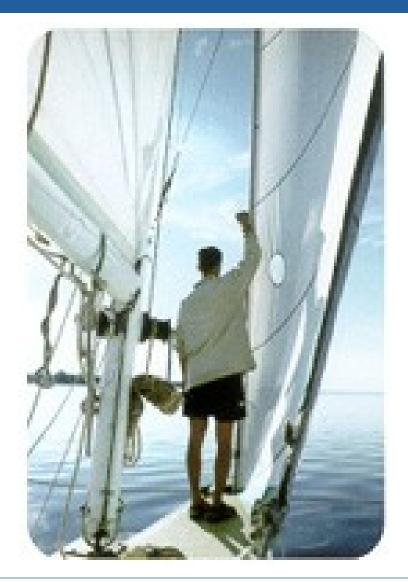
So, what does this all mean?

HP's Linux commitment



"The question for us isn't, '<u>Will Linux dominate the</u> <u>world?</u> ', but '<u>What part</u> <u>of the world will Linux</u> <u>dominate?</u> "

Carly Fiorina CEO, Hewlett Packard Company Linuxworld 2002



Conclusions



- Free Software makes sense to many governments
 - The freedom to pick and choose, and customize/localize
 - Investments
 - Less total cost than proprietary software
 - Local investments in education and building a software industry are better than sending hard currency overseas.
- Successful large-scale public deployments of Linux don't "just happen"
 - Political and economic will are required
 - Big projects take time ... Extremadura started in 1998!
- Many such deployments are now in the discussion and planning stages

More Conclusions



- We should not be surprised that Debian is often chosen
 - Open and inclusive, focus on Freedom
 - Existence proof for the community development model
- The core values associated with Free Software attract strong support.
 - People, hardware, and bandwidth...
 - Direct investment in development, integration, and deployment by governments and educational institutions.
- Debian continues to be one of the most successful volunteer projects ever.
 - Well over 1000 VOLUNTEERS around the world.
 - Delivering real value to meet real world needs.

To Learn More



Debian project web site

www.debian.org

- HP
 - Linux product information starts at www.hp.com/linux
 - Many HP supported Open Source projects (Debian, Samba, etc) are referenced at opensource.hp.com
- Linux for iPAQ handhelds.org
- Bdale's talks go online at www.gag.com/~bdale/talks
- www.amsat.org
- www.sucklingfamily.freeonline.co.uk/mars_express.htm



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