

One Laptop Per Child Presentation by

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Generalist

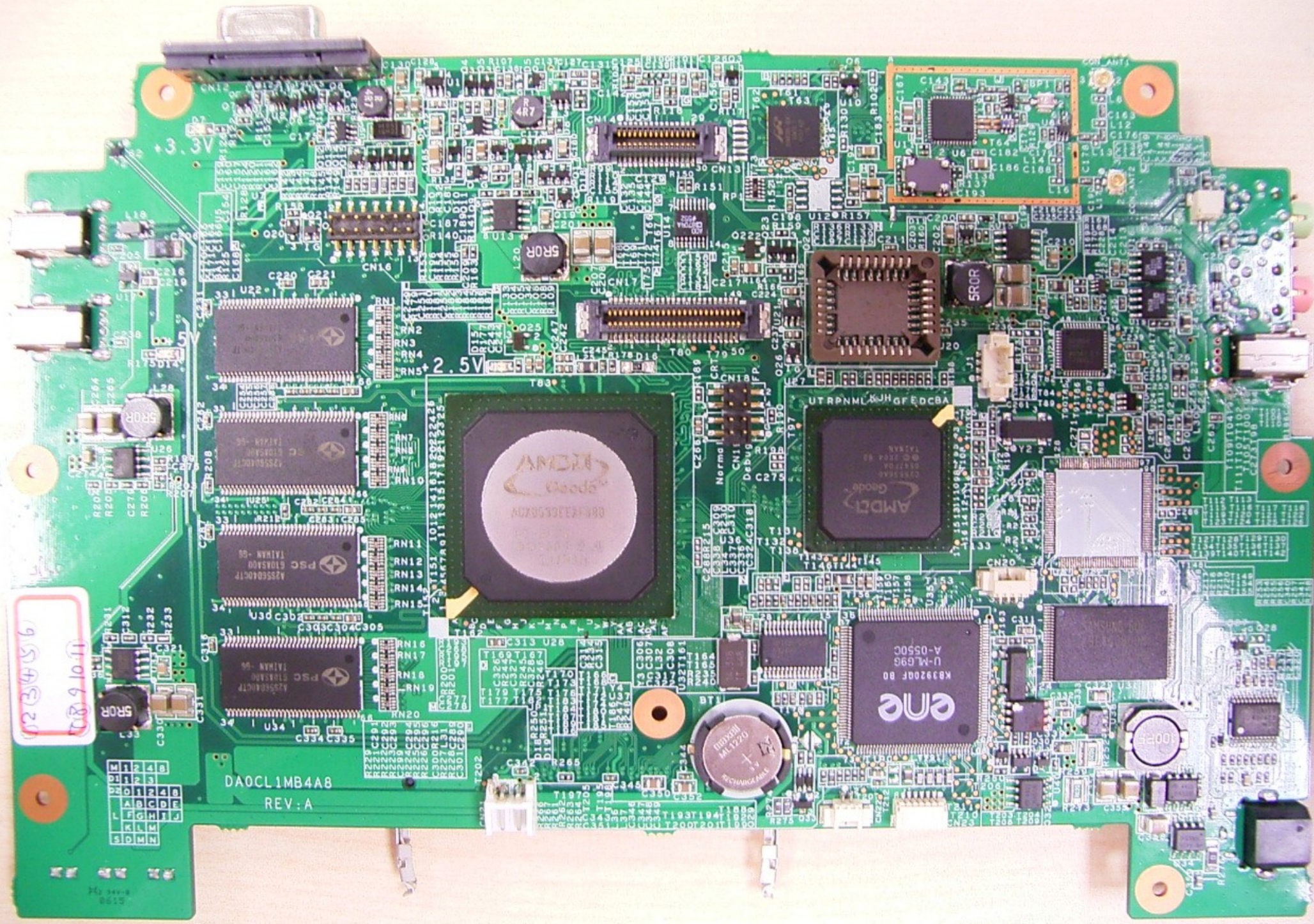
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Open Voting Consortium
Coalition Against UCE
OLPC4USA
WIRE AFRICA

blah, blah, blah, blah, blah, blah, blah...





023456
0891011

DA0CL1MB4A8
REV: A

M	1	2	3	4	8
D	1	2	3	4	8
O	1	2	3	4	8
L	F	G	H	D	E
S	M	N	K	J	I

AMD
Geode
086133E50X20

AMD
Geode
086133E50X20

ene
U-M.696
A-0550C
K839200F 80

PSC
6105A00
TAIWAN - 06

PSC
6105A00
TAIWAN - 06

1000µF
M
MLT220
TAIWAN

1000µF

3.3V

2.5V

DA0CL1MB4A8
REV: A



```
unalias      unhex       uniq        unlnk       unsingle
uname        unicode_start unitou7     unp         unstr
unrar        unicode_stop unitou8     unrar       until
unbin        unconv      unix2dos    unra        unzip
uncompress  uninstaller  unix_chkpud unset        unzipsfx
unexpand     unprint     unix-lpr.sh unshar      unzoo

knoppix@tty0@knoppix1$ uname -a
Linux Knoppix 2.4.27 #2 SMP Mo Aug 9 00:39:37 CEST 2004 i586 GNU/Linux
knoppix@tty0@knoppix1$ lspci
0000:00:01.0 Host bridge: National Semiconductor Corporation CS5535 Host bridge
(rev 21)
0000:00:01.1 VGA compatible controller: National Semiconductor Corporation CS5535
5 Video
0000:00:01.0 ISA bridge: Advanced Micro Devices [AMD]: Unknown device 2898 (rev
02)
0000:00:01.2 IDE interface: Advanced Micro Devices [AMD]: Unknown device 289a (r
ev 01)
0000:00:01.3 Multimedia audio controller: Advanced Micro Devices [AMD]: Unknown
device 2893 (rev 01)
0000:00:01.4 USB Controller: Advanced Micro Devices [AMD]: Unknown device 2894 (
rev 02)
0000:00:01.5 USB Controller: Advanced Micro Devices [AMD]: Unknown device 2895 (
rev 02)
knoppix@tty0@knoppix1$
```

LMS CWZK
M/B:AZA #11

LMS CWZK
M/B:AZA #11

WEST
100

2354
2004

Generations

Currently we can foresee three generations of machines:

- 1st one to ship in mid 2007
- 2nd using components now in early production, for 2008
- 3rd using new technologies such as E-Ink; higher risk, but better performance, 200?

1st generation

The first generation design uses already available components, with the (major) exception of the new flat panel and the chip that drives it, and we expect a novel bi-modal touch pad, and a ASIC to interface NAND flash, SD and a camera.

Family of flat panels

- All based on a common LCD panel, but differing on
 - use of color filters,
 - backlights
 - temporal color
 - different properties (power consumption, resolution, gamut) and risks

2nd generation

Several other designs are higher risk, but better performance, either on effective resolution or power consumption. It we will initially use this low risk panel and may phase in one of the alternatives to manufacturing later in 2007 or 2008. 3M is building specialized plastic optical components being used in the design of these displays.

3rd generation

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Software

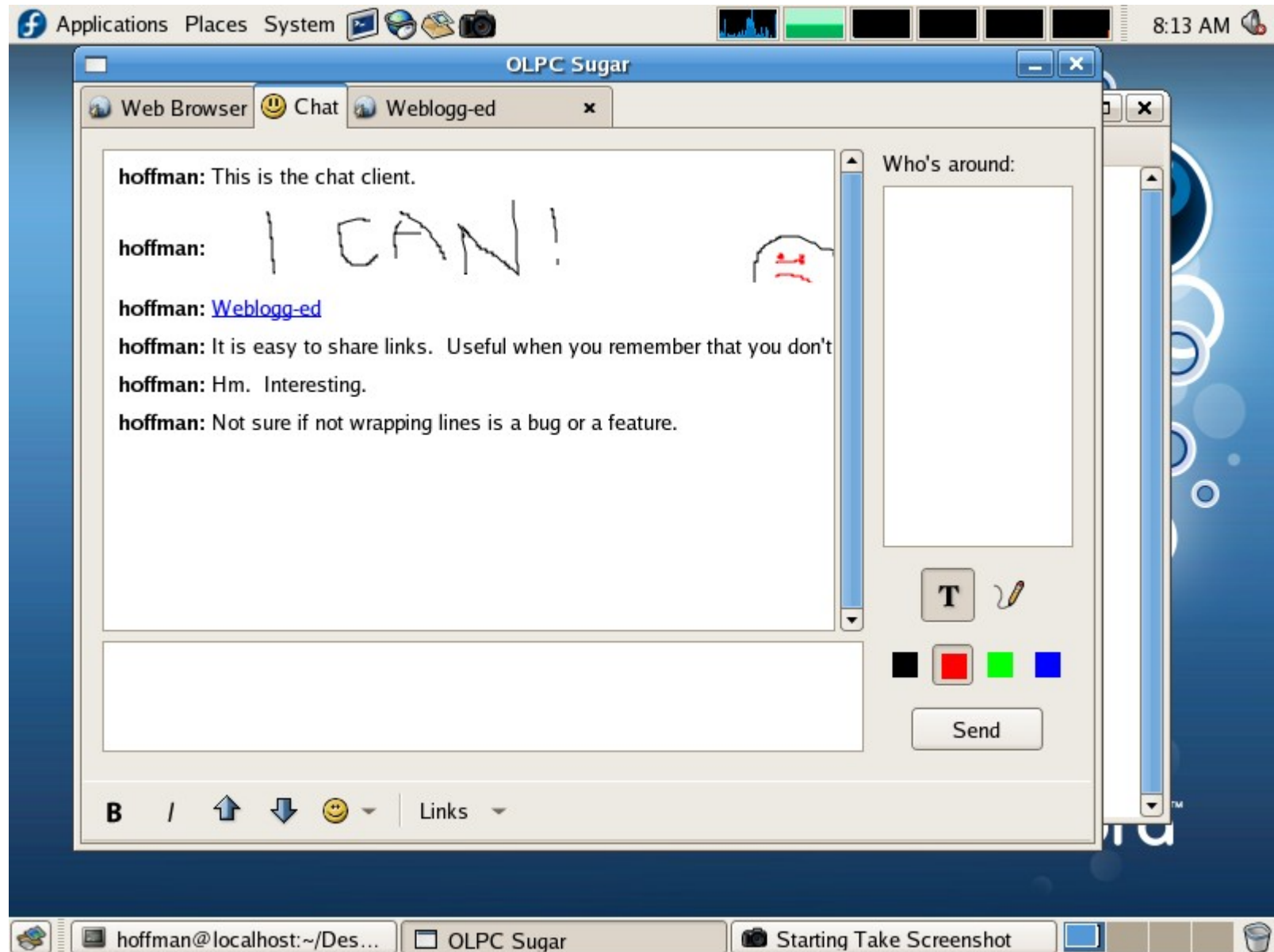
- Linux (based on Fedora Rawhide)
- LinuxBios
- Python
- Sugar UI
- Squeak (Smalltalk)
- Apps
- Educational software

Kernel

For the main kernel, we are using the Fedora Rawhide version of the Linux kernel, which means that we are tracking the main kernel fairly closely. The OLPC specific bits of the Rawhide kernel are pulled from the olpc-2.6 GIT tree on

`dev.laptop.org:http://dev.laptop.org/git.do?p=olpc-2.6;a=summary`

Sugar



You can't have one

Unless you are doing hardware development or writing drivers.

But there will be a retail version, perhaps in 2008.

Countries

- Signed up: Brazil, Libya, Uruguay
- Turned down: India
- Discussing: Egypt, Nigeria, Thailand, Argentina, China, and others not officially announced.

Languages

Stock Linux distributions now support over 100 languages in about 30 writing systems (more than Windows XP and Mac). Not all keyboards have made it into all distributions, but you can download them all from the Net.

The only writing system still missing is Mongolian alphabet, for Mongols in China. Mongolia uses Cyrillic.

After OLPC

OLPC is an education project. It sells computers in million lots to governments.

OLPC4PUSA is also an education project, and in addition a wireless Internet project, health, human rights, economic development, and everything else we can think of.

End Poverty at a Profit

- Link schools for learning and business.
- Every culture has non-monetary wealth, including music, art, clothing, local crop varieties, and much more.
- Teach movie and music businesses.
- Teach international trade: business, law, politics and economics.
- Build complete economy on this base.

Human Rights

- Education, widely recognized
- Health, championed by Dr. Paul Farmer, Partners in Health
- Information, on the Internet
- Economic rights--Access to markets and market data, the level playing field

The *Real* Free Market

The conditions that define a Free Market and lead to market efficiencies (in a word, Competition) are not results of the Market, so they cannot be left to the workings of the market. They must be guaranteed by social mechanisms or by governments. This includes access to world markets and to market information.

Watch, listen and learn

- The poor know better than we do what they need next.
- The poor lack material things, but many of them have family and community that we lack.
- Little of what we can tell each other is in textbooks and curricula.
- Last chance to see. No more poverty after this generation.

Links

- <http://www.laptop.org> OLPC
- <http://wiki.laptop.org> OLPC Wiki
- Wiki pages: Hardware, Software, Content, Developer program, Latest News, Ask OLPC a Question, Getting involved in OLPC, Countries
- <http://mailman.laptop.org/mailman/listinfo>
Mailing Lists
- <http://www.olpcnews.org> Contrary views

Join us

Old men forget; yet all shall be forgot,
But he'll remember, with advantages,
What feats he did that day. Then shall our names,
Familiar in his mouth as household words-
this story shall the good man teach his son;
And Crispin Crispian shall ne'er go by,
From this day to the ending of the world,
But we in it shall be remembered-
We few, we happy few, we band of brothers;
And gentlemen in England now-a-bed
Shall think themselves accurs'd they were not here,
And hold their manhoods cheap whiles any speaks
That fought with us upon Saint Crispin's day.