It’s not an embedded Linux distribution –
It creates a custom one for you.

Collaborative Initiatives in Embedded Linux
Embedded Linux Conference Europe 2011

Jeffrey Osier-Mixon
Yocto Project Community Manager
Intel Corporation
It’s not an embedded Linux distribution –
It creates a custom one for you.

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Embedded Systems
Embedded Systems

• Specific device where the computer is just part of the thing
Embedded Systems

• Specific device where the computer is just part of the thing

  *as opposed to a*

• General-purpose device, where the computer IS the thing
Deeply Embedded Systems

- Computer is just part of the thing

NetBiter/Flickr /CC-BY-SA
Embedded Systems

Definitely an Embedded System
Embedded Systems

What about this?

HTC/perm
Embedded Systems

Not embedded

IBM/perm
Now I’m confused
Collaboration
Collaboration

Baudet de Poitou
http://tcs.wisbrother.com/tcstodaysTcs/fullArtShow/9930?cid=5117
Collaboration

Begun, the flame-war has.
ARE YOU COMING TO BED?

I CAN'T. THIS IS IMPORTANT.

WHAT?

SOMEONE IS WRONG ON THE INTERNET.
Mentor Graphics Acquires Embedded Alley

Eric Hal Schwartz 7/30/09

Mentor Graphics, a Wilsonville, OR-based electronic design automation developer, announced today it has purchased Embedded Alley Solutions, based in San Jose, CA. Financial details were not released. Embedded Alley creates programs to develop software for mobile devices and has made systems for Linux and the Google Android. Mentor (NASDAQ: MENT) said it plans to augment its own Nucleus real-time operating system with Embedded Alley’s technology.
Collaboration

Mentor Graphics Acquires Embedded Alley


developer, announced today it has purchased solutions, based in San Jose, CA. Embedded Alley creates programs and has made systems for devices and has made systems for Mentor (NASDAQ: MENT) said it.

by time operating system with Embedded

Intel Buys Wind River To Put a Computer In Every Toaster

By Stacey Higginbotham / Jun. 4, 2009, 8:09am PT / 11 Comments

Intel today said it plans to acquire Wind River Systems for $884 million — a deal that gives the world’s largest chipmaker control of development software and operating systems for devices that range from cell phones to routers. Intel last year made a big to-do about getting into the embedded market that supplies chips for

intel
Collaboration

Mentor Graphics Acquires Embedded Alley

Mentor Graphics, a Wilsonville, OR-based developer, announced today it has purchased Embedded Alley, a San Jose, CA-based firm providing Design Solutions, based in San Jose, CA. Founded in 1998, Embedded Alley creates programs for embedded devices and has made systems for Mentor (NASDAQ: MENT) said it has bought the time operating system with Embedded Alley's software.

Intel Buys Wind River To Put a Computer In Every Toaster

By Stacey Higginbotham | Jun. 4, 2009, 8:09am PT | 11 Comments

Montavista embedded Linux eaten by Cavium

By Dana Blankenhorn | November 16, 2009, 6:33am PST

**Summary:** One can argue that, while Montavista hoped to sell for more, its investors are now getting a taste of a fast-growing proposition. And their success, Cavium’s success, will be open source’s success as well.
Types of Collaborative Initiatives
Types of Collaborative Initiatives

- Open source projects
Types of Collaborative Initiatives

• Open source projects
• Consortiums

Buddawiggi/Flickr/CC-BY
Types of Collaborative Initiatives

• Open source projects
• Consortiums
• Working groups
Types of Collaborative Initiatives

- Open source projects
- Consortiums
- Working groups
- Standards organizations

Randall Munroe/xkcd.com CC-NC-SA
Why collaborate?

• Increase return on investment
• Business is expensive
• Get more out than put in
Initiatives

• Standards organizations
• Working Groups
• Consortiums
• Open source projects
Initiatives

Standards organizations
Initiatives: Standards Organizations

Linux Phone Standards Forum
Initiatives: Standards Organizations

Linux Mobile Foundation

limofoundation.org
Initiatives: Standards Organizations

Embedded Linux Consortium
Initiatives

Working Groups
Initiatives: Working Groups

Consumer Electronics Linux Forum (CELF)

linuxfoundation.org/collaborate/workgroups/celf
Initiatives: Working Groups

Consumer Electronics Linux Forum (CELF)

linuxfoundation.org/collaborate/workgroups/celf
Initiatives

Consortiums
Initiatives: Consortiums

GENIVI Alliance

genivi.org
Initiatives: Consortia

Linaro

linaro.org
Initiatives: Consortiums

Android

android.com
Initiatives

Open source projects
Initiatives: Open Source Projects

MeeGo

meego.org
Initiatives: Open Source Projects

Tizen

tizen.org
Initiatives: Open Source Projects

OpenEmbedded

openembedded.org
Initiatives: Open Source Projects

The Yocto Project

yoctoproject.org
Trust
Thanks for listening

Jeff Osier-Mixon

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Jefro (freenode.net)

Stop by the Yocto Project booth!
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