Introduce Adapteva Parallella
Parallella Community JP Masafumi Ohta
Masafumi is former Sun OpenSolaris Core Contributor and now he is leading Japanese Raspberry Pi Users Group and helping Raspberry Pi Foundation as official Mod at Raspberry Pi Forum.
What’s Parallella

Thanks for supporting this project and we hope you will make good use of the Parallella board and any accessories you get with it.

http://www.kickstarter.com/projects/adapteva/parallella-a-supercomputer-for-everyone
Parallella: Supercomputing for everyone

Parallella-16 Embedded Platform
18 Cores
Zynq Z7020
48 GPIO Ports
HDMI, USB
$249.00 Sold Out

Parallella-16 Desktop Computer
18 Cores
Zynq Z7010
24 GPIO Ports
HDMI, USB
$149.00 Sold Out

Parallella-16 Micro-Server
18 Cores
Zynq Z7010
No GPIO Ports
No HDMI, USB
$119.00 Sold Out

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Why purchase Parallella
Lowest Cost Mini Spacon!
Parallella: A Supercomputer For Everyone

But I am too late...
I bought as ‘Pre-Order’
Parallella: Supercomputing for everyone

- Parallella-16 Embedded Platform
  - 18 Cores
  - Zynq Z7020
  - 48 GPIO Ports
  - HDMI, USB

- Parallella-16 Desktop Computer
  - 18 Cores
  - Zynq Z7010
  - 24 GPIO Ports
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  - Zynq Z7010
  - No GPIO Ports
  - No HDMI, USB

- Parallella-16

$119.00 Sold Out
Official Cable kit and Case
世の中は用心が必要です。

Why so serious?
Parallella Verified Peripherals

Important Notices

Using non-standards compliant powered USB hubs may damage the Parallella!

Check the list of all certified USB hubs before plugging in your USB hub.

- Critical issue with non-conforming USB powered hubs.

Using a power adapter supplying more than 5V may damage the Parallella.

Parallella should be broken USB and AC Power anomaly
ARM is ‘software electric power control’
Should be run a fan
Cooling the board
First, AC (included official package) has been broken...
Each AC Power deffers..
(Especially made in Chinese)
Sony PSP-100 is most reliable AC as 5V/2A, work great!
AC plug converter
http://item.rakuten.co.jp/denshi/53099/
Re-purchase the case
I am scared using internal power for fan – want to prevent from Power anomaly thus broken the board
Bought 25x25x8 External Power

http://www.amazon.co.jp/gp/product/B00R0AIMG2?psc=1&redirect=true&ref_=oh_aui_detailpage_o03_s00
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Using a power adapter supplying more than 5V may damage the Parallella

- To make powered from my Parallella

We can't buy certificated self-powered HUB in Japan

http://tinyurl.com/coulava
Check Watt Monitor to AC Consumption
Radiation thermometers
• It works on 6-7W (HDMI)
• 3.6-4.9W as headless
• 37-44 degrees using Case
• USB often doesn’t work, please replug or reset parallella
• Parallella run all 24 hours (proper case and fun)
Tips for Pallalla Newbies
Parallella Fan! is most useful website for newbies please check out!

http://cellspe.matrix.jp/parallella/

SynthesijerでJavaプログラムからHDLコードを自動生成する

Synthesijerはオープンソースの高級合成ツールです。通常のJavaプログラムからHDLコードを自動生成できます。

FPGAに独自の回路を追加する
Heatsink will be too hot not cool down by itself so need to use fan to cool it. And please do not attach this big sink if you use the case.
if you use ‘parallella-examples please use old HDMI- release.some doesn’t work on the latest
finishing copying image to SD you will need diskpart and expand system – use Ubuntu PC for it
Need to kernel compile to use for using USB DAC or something – do check your stuff before using
Latest daughter board like Porcupine cant support the latest stuff (Camera) immediately be careful it is not Raspberry PI :)

AP 0 18 3 3 2 1 0-GXID

AN G SP TM DF TX RX G 33 VA 18 3 3 2 1 0-XID

MADE IN U.S.A.
We have demo boards (Server/Desktop/Embedded) at trial corner. Please check out! (Thanks RS Components JP!)
1st Parallella Conference Tokyo 2015
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