OSC Device Design Space

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General vs. Special Purpose

- Current OSC devices are
  - general purpose
  - physically large
  - over $100
  - a bargain!
Special Purpose

- Lots of applications need something
  - cheaper, many performers
  - smaller: dance, wearable
  - faster than MIDI: reactivity
OSC Hardware Kit

- Affordable ~$100 vs $1000
- Supports sensing and control
- Rapid Prototyping, customizable
- Readily available
- Simple things simple
- Fast enough
- Compact
Some Candidates

- “pic” and other 8-bit controllers
- Axis embedded linux box
- Rabbit 3000 modules
- USB modules
- uCLinux embedded controller
- PDA or cellphone
- custom FPGA based design
Axis

- Stable Supplier, Open source uClinux
- $289
- Expansion ports but no A/D
Rabbit 3000series

- Stable Supplier
- tcp/ip code, OS and compiler included
- $340+ $59/module
- Analog in, prototyping, IR, encoders
USB

Stable Supplier

USB serial emulation drivers

$90+ $30/module

no Analog in, prototyping

faster than MIDI

slower than Ethernet
Working Group

- Please contact me if you are interested in
  - owning an OSC hardware kit
  - joining the “OSC devices” working group
  - suggesting further platforms
  - describing your needs
  - sponsoring this work

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