

Kinematics Rock Digitizers

Antelope User's Group
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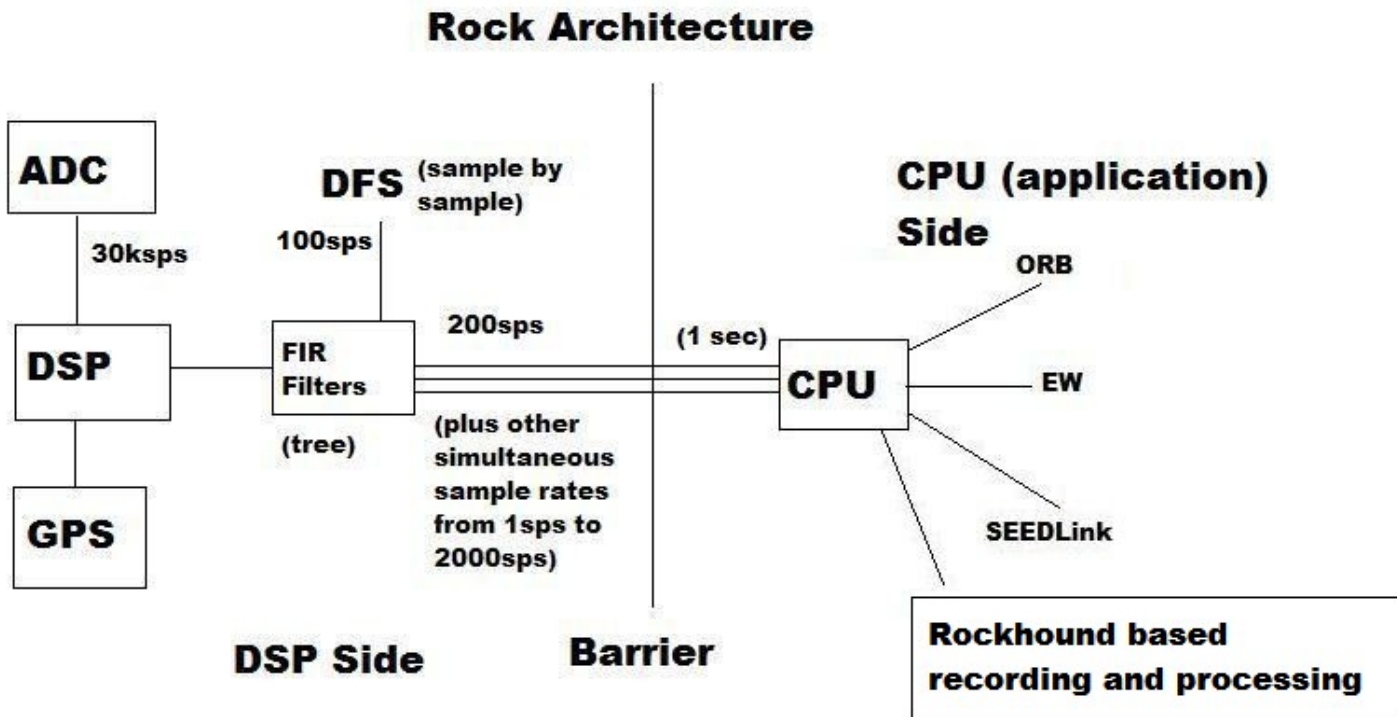


New Features in v3.8

(Released September 2011)

- **Timing Support for NTP** (see App Note 60 on Wiki)
 - Requires Linux Update 16
- **DFS Protocol Extension**
 - Direct sample-by-sample serial output from DSP with optional board (Max 100sps)
 - Includes timestamp and full 24 bit resolution
- **Several Smaller Changes**
 - E.g.: Extended Unicode support for web server translations
 - Several minor improvements, bug fixes, and requested additions

DFS and Data Flow



Upcoming Rock Update

- Linux Update to v2.6.35
 - gcc 4.3.2
- Oracle JVM v1.7 for ARM

Why do you care?

- More efficient resource usage
 - More mainline Linux kernel and tools
 - Better supported JVM
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- Currently Alpha testing, release mid-late 2012

“Rock 2”

- We are upgrading/replacing the current XScale main processor
- In part driven by EOL of the XScale
- Processor section only
- Will be another ARM variant
- Faster, more memory, similar power consumption

Processor Section Redesign

What we'd like to see in Rock 2:

- 10/100 Ethernet
- Better USB support
 - Device (Replaces serial console)
 - Host (WiFi, Thumb Drives, Bluetooth, etc)
- Removable storage (SD or Micro-SD)
- PTP (IEEE 1588 support)
- Power Over Ethernet