Deluge for T2

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Status

• Work in progress
• Works on Tmote Sky/TelosB (for now)
• Supports only one image (for now)
• Image format is preserved
• TOSBoot is preserved (for now)
Use

$ ./deluge.py /dev/ttyUSB0 -i apps/Blink/build/telosb/tos_image.xml
Pinging node ...  
Connected to Deluge nodes.

--------------------------------------------------

Stored image  
   No proper Deluge image found!
--------------------------------------------------

Ihex read complete:
   Total bytes = 24326
   Sections = 2

--------------------------------------------------

Replace image with:
   Prog Name: BlinkAppC
   Compiled On: Thu Apr 26 14:34:52 2007
   Platform: telosb
   User ID: tinyos2
   Host Name: bluephase
   User Hash: 0x587C9C16L
   Num Pages: 23/23

--------------------------------------------------

$ ./deluge.py /dev/ttyUSB0 -r
Command sent
$

Differences

- Refactors Deluge into dissemination and reprogramming parts:
  - Deluge is the dissemination service
  - Reprog is the reprogramming service
  - TOSBoot is (still) the bootloader
- Support for volume-xxx.xml include directives.
- New TOS system-level interface for image access.
- Python tools instead of Java tools.
Future Work

- TOSBoot for all the architectures
- Testing and documentation
- Integration in the T2 tree
- TEPs (BCP and Documentary)
Thank you!