

Inventio Software Ltd

Specialist Instrumentation Design and Programming

You-Me Drive Software Development

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1. You-Me Drive Boot program - based on colorForth on SourceForge :

<https://sourceforge.net/projects/colorforth/files/?source=navbar>
<http://www.inventio.co.uk/USBloader.htm>

NASM assembler creates the colorForth system, plus colorForth source code, this is used to boot the PC or laptop. Development under Windows 7 or Ubuntu 16.04.
The USBloader program reads and writes USB devices under Windows.

2. You-Me Drive WiFi - based on zSun USB WiFi device and OpenWrt :

<https://wiki.hackerspace.pl/projects:zsun-wifi-card-reader/>
<https://www.youtube.com/watch?v=Y4IOKTZoz2Q>

Hopefully the zSun device can be used without changing its firmware, any required changes should be minor. Development under Ubuntu 16.04.

3. You-Me Drive peer-to-peer file synchronization protocol, based on Software Transactional Memory

<http://www.complang.tuwien.ac.at/anton/euroforth/ef10/papers/haley.pdf>

We are synchronising relatively small amounts of data, so hash trie of the files stored in each You-Me Drive is used to find out which blocks need to be updated.
Development under colorForth system (item #1, above).

4. Windows based browser interface, based on wsaf SwiftForth Windows Sockets API script

https://groups.google.com/forum/#!msg/comp.lang.forth/l4NMooV08Nw/D_hWMpaXleIJ
<http://www.inventio.co.uk/LegacyIndex.htm>

5. Synergistic effects:

The major part of the software development is making the four parts of the system cooperate, and ensuring that together they provide a simple user interface.

The actual programming of items 2 to 4 above is relatively low risk, as much of it is already completed.

No hardware development is planned at this stage.

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