

Single Value Decomposition SVD using thread Ultibo bare metal

07/01/20

devel@mypi3-20:~ \$ export PATH=/home/devel/ultibo/core/fpc/bin:\$PATH

devel@mypi3-20:~ \$ cd Ultibo Projects/th svd/RPi3

devel@mypi3-20:~/Ultibo Projects/th svd/RPi3 \$./buildlib.sh

Compiling example ultibo th svd

devel@mypi3-20:~/Ultibo_Projects/th_svd/RPi3 \$ fpc -vi -B -Tultibo -Parm -CpARMV7A -

WpRPI3B @/home/devel/ultibo/core/fpc/bin/RPI3.CFG -O4 svd_FS_RPi3.lpr

Free Pascal Compiler version 3.1.1 [2020/06/17] for arm

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Target OS: Ultibo

Compiling svd_FS_RPi3.lpr

Compiling uTFTP.pas

Assembling utftp

svd_FS_RPi3.lpr(40,2) Note: Local variable "MyPLoggingDevice" not used

svd_FS_RPi3.lpr(42,2) Note: Local variable "Handle1" not used

svd_FS_RPi3.lpr(43,2) Note: Local variable "Handle3" not used

svd_FS_RPi3.lpr(45,2) Note: Local variable "Window" not used

Assembling svd_fs_rpi3 Linking svd FS RPi3

687 lines compiled, 1.9 sec, 2878204 bytes code, 94520 bytes data

4 note(s) issued

devel@mypi3-20:~/Ultibo_Projects/th_svd/RPi3 \$ tftp 192.168.1.69 < cmdstftp

tftp> tftp> Sent 2942416 bytes in 6.0 seconds

tftp> devel@mypi3-20:~/Ultibo_Projects/th_svd/RPi3 \$./getsvdresults.sh

retrieve svd results

tftp> tftp> Error code 5: 56075

Received 2048 bytes in 5.0 seconds

tftp> Error code 5: 59590

Received 2048 bytes in 5.1 seconds

tftp> Error code 5: 58020

Received 2048 bytes in 5.0 seconds

tftp> tftp> Error code 5: 58395

Received 1048576 bytes in 8.1 seconds

tftp> Error code 5: 34075

Received 1048576 bytes in 8.5 seconds

tftp> Error code 5: 49860

Received 1048576 bytes in 8.3 seconds

tftp> tftp> done

2nd thread

```
Let thread processing th id(0) 0x306a0b4
In mysod input file: red.pin
Jin mysod direct content file
Jin mysod mysolytes red
Jin mysolytes red
Jin mysod mysolytes red
Jin mysolytes red
Ji
```

3rd and transfer

```
In mysed input file: blu.pgm
In mysed second_output: rcblu.bin
In mysed second_output: rcblu.bin
In mysed status: 0
In mysed mun bytes rd: 0
In mysed mun bytes rd: 0
In mysed mun bytes rd: 0
In mysed status input file read: 1 num_bytes_rd 262144
blu.pgm th2.len1 = 0
In = 1050624 th2.len2 = 1050624 th2.len3 = 1950624 th2.len4 = 1050624
Ien = 1950624 th2.len2 = 1050624 th2.len3 = 1950624 th2.len4 = 1050624
Ien = 1950624 th2.len2 = 1050624 th2.len3 = 1050624 th2.len4 = 1050624
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Ien = 1050624 th2 len2 = 1050624 th2.len4 = 1050624
Ien = 1050624 th2 len2 = 1050624 th2.len4 = 1050624
Ien = 1050624 th2 len2 = 1050624 th2.len4 = 1
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