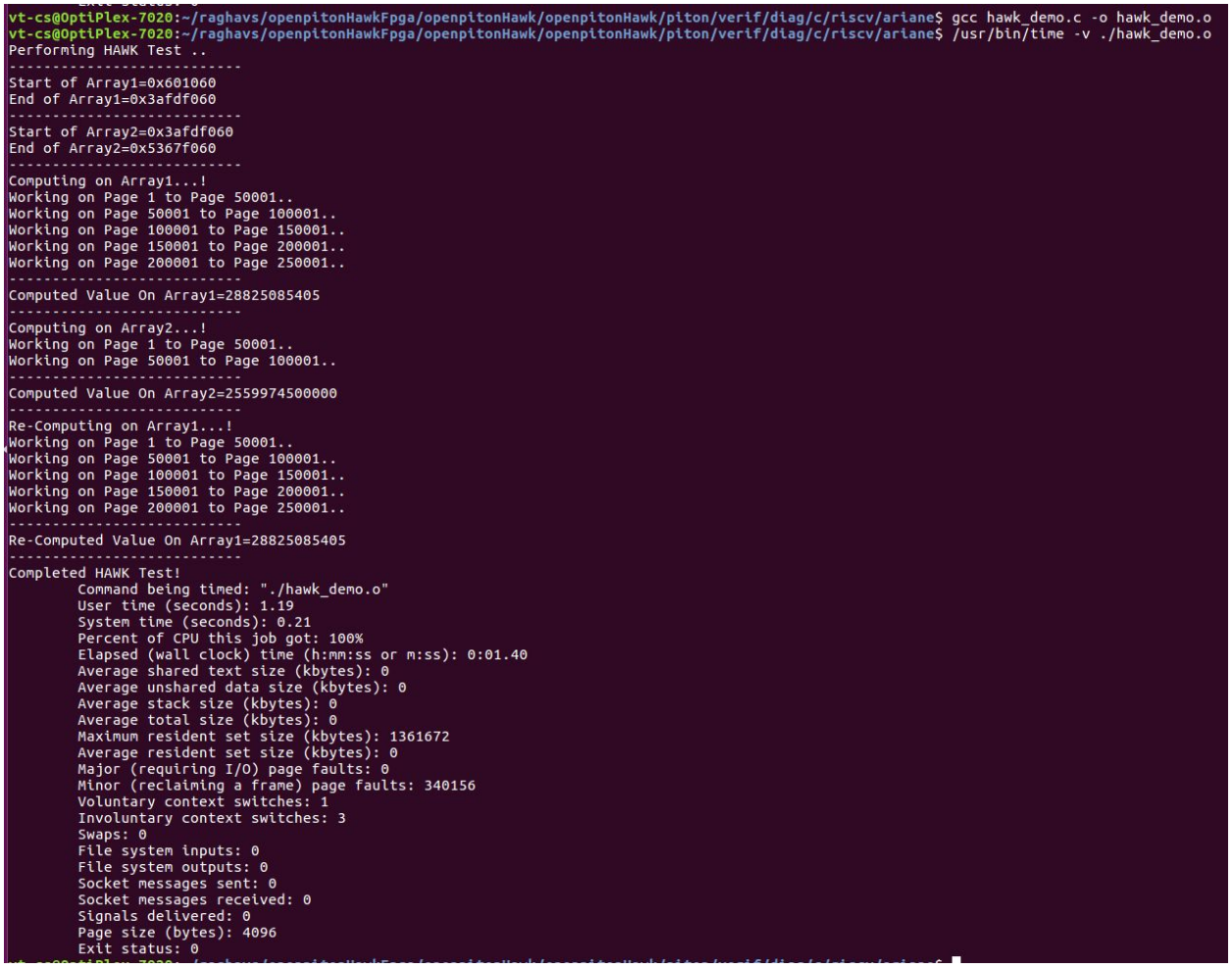
Microbenchmark Execution on Normal Machine:



Microbenchmark Execution on FPGA programmed with HAWK integrated Openpiton:

```
[INFO]  pitonstream,1.0:402: Running hawk_demo.c: 1 out of 1 test
[INFO]  pitonstream,1.0:287: Compiling hawk_demo.c
sims -sys=manycore -novcs_build -midas_only                -midas_args='-DUAR
[INFO]  pitonstream,1.0:294: Compiling C test from mem.image for hawk_demo.c
[INFO]  pitonstream,1.0:300: Creating addr:data map for the test
[INFO]  pitonstream,1.0:268: Found 1 sections
[INFO]  pitonstream,1.0:314: Extracting test sections
[INFO]  make_mem_map.py:387: Checking correctness of section mapping...
[INFO]  make_mem_map.py:400: Correct!
[INFO]  make_mem_map.py:318: Used 62 out of 16777216 blocks of storage
Loading a test...
100%
TEST OUTPUT >>>
Performing HAWK Test ..
---------------------------
Start of Array1=0x80000f68
End of Array1=0xba9def68
---------------------------
Start of Array2=0xba9def68
End of Array2=0xd307ef68
---------------------------
Computing on Array1...!
Working on Page 1 to Page 50001..
Working on Page 50001 to Page 100001..
Working on Page 100001 to Page 150001..
Working on Page 150001 to Page 200001..
Working on Page 200001 to Page 250001..
---------------------------
Computed Value On Array1=28825085405
---------------------------
Computing on Array2...!
Working on Page 1 to Page 50001..
Working on Page 50001 to Page 100001..
---------------------------
Computed Value On Array2=2559974500000
---------------------------
Re-Computing on Array1...!
Working on Page 1 to Page 50001..
Working on Page 50001 to Page 100001..
Working on Page 100001 to Page 150001..
Working on Page 150001 to Page 200001..
Working on Page 200001 to Page 250001..
---------------------------
Re-Computed Value On Array1=28825085405
---------------------------
Completed HAWK Test!
```

Conclusion : System with HAWK computes the same computation values as that of a normal machine which consumes 1.36 GB memory but using only 1GB available memory on genesys2 kintex FPGA board.

Compression and Decompression Count during execution:

ZsPgCnt: ZssPage Count. One ZsPage can hold 3 compressed pages

DeCompPgCnt: Decompression Page count