

HPC Challenge

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2023-03-01

Contents

| | | |
|---|-----------------------------------|---|
| 1 | Download Version 1.4.3 | 2 |
| 2 | Download Version 1.5.0 | 2 |
| 3 | Compile 1.4.3 On an Intel Cluster | 2 |
| 4 | Links | 2 |
| 5 | History | 2 |
| 6 | Disclaimer of Warranty | 3 |
| 7 | Limitation of Liability | 3 |

The **HPC Challenge** (HPCC) is a benchmark suite that measures a variety of memory access patterns.

The **HPCC** consists of seven tests:

1. High Performance Linpak (HPL)
2. DGEMM
3. STREAM
4. PTRANS
5. RandomAccess
6. FFT
7. Communication bandwidth and latency

1 Download Version 1.4.3

```
cd /srv/src
wget http://icl.cs.utk.edu/projectsfiles/hpcc/download/hpcc-1.4.3.tar.gz
cd /srv/build
tar xvzf ../src/pcc-1.4.3.tar.gz
```

2 Download Version 1.5.0

```
cd /srv/src
wget http://icl.cs.utk.edu/projectsfiles/hpcc/download/hpcc-1.5.0.tar.gz
cd /srv/build
tar xvzf ../src/pcc-1.5.0.tar.gz
```

3 Compile 1.4.3 On an Intel Cluster

To compile the code under a fictitious architecture **ArchitectureE52697v2**, the Makefile must be copied and edited.

```
cd /srv/build/hpcc-1.4.5
module load mkl/intel
module load intel/15.0
module load impi/5.0.1035
cp Make.SOMETHING hpl/Make.ArchitectureE52697v2
make ArchitectureE52697v2
```

4 Links

- [HPC Challenge Benchmark - Home](#)
- [Source Code - Source Forge](#)

5 History

| Version | Date | Notes |
|---------|------------|----------------------------------|
| 0.1.4 | 2023-03-01 | Improve writing |
| 0.1.3 | 2023-01-17 | Add locale, lang to front matter |

| Version | Date | Notes |
|---------|------------|-------------------------------|
| 0.1.2 | 2022-06-13 | Shell->bash, changes->history |
| 0.1.1 | 2016-03-20 | version 1.5.0 |
| 0.1.0 | 2016-02-01 | Initial release |

6 Disclaimer of Warranty

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