

## 实验四：Linkpack 性能测试：

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8个物理CPU单节点测试：

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- The matrix A is randomly generated for each test.
- The following scaled residual check will be computed:
  ||Ax-b||_oo / ( eps * ( ||x||_oo * ||A||_oo + ||b||_oo ) * N )
- The relative machine precision (eps) is taken to be           1.110223e-16
- Computational tests pass if scaled residuals are less than      16.0

=====
T/V          N   NB   P   Q       Time       Gflops
-----
WR00L2L2     18536  384    1    1        20.20      2.1019e+02
HPL_pdgesv() start time Wed Apr 30 18:06:51 2025

HPL_pdgesv() end time   Wed Apr 30 18:07:12 2025

-----
||Ax-b||_oo/(eps*(||A||_oo*||x||_oo+||b||_oo)*N)=  2.54461665e-03 ..... PASSED
=====

Finished      1 tests with the following results:
               1 tests completed and passed residual checks,
               0 tests completed and failed residual checks,
               0 tests skipped because of illegal input values.

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End of Tests.
```

2物理CPU数\*2结点数测试：

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||Ax-b||_oo/(eps*(||A||_oo*||x||_oo+||b||_oo)*N)=  2.68168395e-03 ..... PASSED
=====
T/V          N   NB   P   Q       Time       Gflops
-----
WR00L2C2     4512   384    1    2        0.87       7.0511e+01
HPL_pdgesv() start time Wed Apr 30 18:24:57 2025

HPL_pdgesv() end time   Wed Apr 30 18:24:57 2025

-----
||Ax-b||_oo/(eps*(||A||_oo*||x||_oo+||b||_oo)*N)=  2.68168395e-03 ..... PASSED
=====
T/V          N   NB   P   Q       Time       Gflops
-----
WR00L2R2     4512   384    1    2        0.83       7.3397e+01
HPL_pdgesv() start time Wed Apr 30 18:24:58 2025

HPL_pdgesv() end time   Wed Apr 30 18:24:59 2025

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||Ax-b||_oo/(eps*(||A||_oo*||x||_oo+||b||_oo)*N)=  3.06197887e-03 ..... PASSED
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Finished      3 tests with the following results:
               3 tests completed and passed residual checks,
               0 tests completed and failed residual checks,
               0 tests skipped because of illegal input values.

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End of Tests.
```