

# BLAS

BLAS (Basic Linear Algebra Subprograms)

## Description

The BLAS (Basic Linear Algebra Subprograms) are routines that provide standard building blocks for performing basic vector and matrix operations.

For more information visit [BLAS home page](#).

BLAS is currently available in different modules in HLRN:

- Intel MKL (via intel/mkl module)
- OpenBLAS

Both provide highly optimized BLAS routines. Additionally there is a (slow) reference lapack in /usr/lib64

## Modules

| Version | Installation Path               | modulefile           | compiler  |
|---------|---------------------------------|----------------------|-----------|
| 0.3.7   | /sw/numerics/openblas/0.3.7/skl | openblas/gcc.7/0.3.7 | gcc/7.5.0 |
| 0.3.7   | /sw/numerics/openblas/0.3.7/skl | openblas/gcc.8/0.3.7 | gcc/8.3.0 |
| 0.3.7   | /sw/numerics/openblas/0.3.7/skl | openblas/gcc.9/0.3.7 | gcc/9.2.0 |