Compose is the client for which /hwcommon/math/kernel was created. The project creates hwmathcore binaries. The /kernel folder was created as a clone of /core to avoid compatibility conflicts between HyperMath and Compose. When HyperMath is no longer supported /kernel can be renamed to /core.

/hwcommon/math/core contains a matrix class template, a complex number class template, error handling for Compose modules, and some general math functions.

The reasons for developing the complex number class template are rooted in the matrix class history. The class could be removed in favor of <complex>, so clients that only need complex number support should consider using <complex> instead.

/hwcommon/math/kernel has no third party dependencies. However, clients that use the matrix class template with hwMatrix.h will need to link to MKL, or BLAS and LAPACK, as follows.

LIB\_PATH += $(LAPACK\_LIB\_PATH)

APP\_LIBS += $(LAPACK\_LIBS)