

# HepPDT shared libraries

- ▶ unresolved bug report #46551 from ATLAS
  - libHepPDT.so missing explicit dependency against libHepPID.so
- ▶ libtool uses rpath when building libraries
  - this is not optional (“libtool knows best”)
  - actually embeds rpath to ***install*** directory
  - possible relocation problem
  - make check can be incorrect

# Proposed Solution

- `LD_LIBRARY_PATH` can be used
- `DYLD_LIBRARY_PATH` is insufficient (MacOSX)
- stop using `libtool`
- if a compiler is unrecognized, assume it is a `gcc` variant
- recognized compilers: `g++`, `cl` (VisualC++), `icc` (?)
- when building `libHepPDT`, add `-L... -lHepPID`