Fortran API

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Fortran API

- Purpose – largely to provide access to data files
- Scope
  - DRMS
  - cmdparams
- Mirrors C API, “wraps” C API
  - C: drms_open_records(…)
  - F: F_DRMS_OPEN_RECORDS(…)
- C Structures accessible from C code only
  - FORTRAN has “interface handle” to C structure
  - C library to convert handles to C structures and vice versa
Fortran API

- **FORTRAN modules link “jsoc_main” library**
  - Provides the C main() function
  - Parses command-line arguments provided to FORTRAN module, places in C structure
  - Automatically connects to existing drms_server, or starts a new drms_server, with a socket

- **Status**
  - Interface-handle code implemented, tested
  - jsoc_main implemented, tested
  - Wrappers for all cmdparams functions implemented, tested
  - Wrappers for nearly all DRMS functions implemented, a few tested