High Priority

- Cluster configuration file standard definition
  - Adapting various clients (genmachines / threads) to make use of cluster definition file
- Add large (~1 TB) dataset with variety of modes on Data Fabric (CR)
  - Regression testing scripts
  - ~~Benchmark testing scripts~~
- ~~VDIF multiple thread support (AD,CP)~~
- Make general version of NRAO Monitoring GUI (HR)
  - ~~Update DB schema (HR)~~
  - ~~Add database abstraction layer (HR)~~
  - ~~generalize difxqueue / difxdaemon /difxarch~~
- ~~Geodetic verification~~
- ~~Bug tracking/ feature request system~~
- ~~refactoring difxcalculator, vex2difx, dif2fits, difx2mark4 → difxio~~
- Choose framework for unit testing. Implement test cases (JM)
- ~~Add support for processing multiple scans to difx2mark4~~
- ~~Add package config files for IPP5,6,7, and transition setup script to make use of these~~

Medium Priority

- Add DiFX diagnostics
- Documentation
  - Doxygen of mpifxcorr source
  - ~~Difx Users guide → svn and wiki~~
  - Documentation of mpifxcorr internals (buffers etc.)
  - ~~benchmarking scripts / strategies~~
- Documentation Algorithms
  - parameter optimisation (AD)
  - monitoring, etc - (list of error codes) (AD)
  - setting up native Mark5 access (WB+)
- evlbi
  - reconnection/long term drop-outs (CP)
  - real-time delay/rate adjustment (CP)
- vex2difx to create an input file setup to be used with vlbi_fake
- Synchronize data fabric test datasets at several sites. (Bonn, Curtin, NRAO)
- Maintain database of benchmarking results (JM)
- Phased array (RS, CR).
- visplot (Aquib)
- Investigate sampler stats monitoring (AD/WB/CP)
- subband distribution/parallelisation (with VDIF) (AD/CP)
  - replumbing/refactoring vex2difx setup
- Play back from both Mk5 banks in parallel (WB)
- Transition to using band centres instead of band edges (WB)
- Baseband data generator for producting test datasets. (WB)
- Parallelised calc server
- Store polynomial tau(l, m) generalized delay model in FITS (WB,JM)
- Standard way of setting up environment (JM)
- Have different environments for building and operation (GC)

Low Priority

- cleanup of DiFX error messages
- Single process multi-threaded non-mpi program for DiFX-specific CPU benchmarking.
- Future proofing via non-prescriptive format (AD)
- K5 format support (CP)
- Space VLBI
    - Orbit model
    - Baseline dependent averaging
- eVLBI gui
- ~~Tsys determination~~
- IPP alternatives
- Generic startup scripts (CR)
    - Documentation of startup philosophy
- Shifted FT (moving channel boundary to edge of band) (AD)
- ~~DiFX2fits uv shifting in trunk (JM/AD)~~
- Migrating to python3.0 (ensure current compatibility with python2.6) (everyone)
- Add support for crosscorrelation of non matching sample rates
- Support for zoom band in vex2difx, difx2fits, difxio (WB)
- SVN cleanup
- ~~SVN vendor branch~~
- Auditing / refactoring the amplitude scaling
- pulsar predictor support in “polyco”
- Get rid of printing to screen in mark5access (change to be called and printed from elsewhere)
- Get Eric to improve AIPS PCAL (multi tone)
- Improve the runtime predictor (make better use of the new cluster configuration file, better estimate true load)
- Review DiFX installation (SCONS, autotools etc.) (JM)