MSTK - Multi-Stream hybrid ToolKit

Easy & efficient assembly of all-combinations data sets, combined with flexible MLP specification. Allows rapid testing & development of multi-expert recognition systems.

Important features

- web based used guide
  http://www.idiap.ch/~morris/projects/respite/mstk_user_guide.html
- unix-like switches on command line &/or read from file
- runs on unix or linux
- streams specified as subbands &/or fullband data sets
- MLPs trained for all possible stream combinations
- # combs can be constrained by min & max # streams/comb.
- 11 posteriors comb. rules (incl all from Astrid's PhD)
- <= 10 layers in each MLP, <= 256 MLPs, any # frames/win
- can be used for "tandem" processing (NLDA features)
- priors estimation (empty MLP) uses m-estimate correction

Present limitations

- no preprocessor
- no decoder
- all feature & label files must use HTK (or DC) format
- no expert weights estimaton (can be read & applied)