**ComputeObjInf()**

*Compute objective infeasibilities at current iterate*

*Lines 71-80: copy parameters into local variables*

*Lines 86-92: check primal constraints. Uses SparseSaxpyM() from wrappers.c*

*Lines 95-99: find primal bound with x + w - u*

*Lines 103-118: Check dual constraints. Uses SparseSaxpyTM() from wrappers.c*

*Lines 122-135: Compute the norms of residual vectors*

*Lines 139-162: Compute gab and primal and dual objective*

**RecomputeDualVariables()**

*Do matrix-vector multiplication to recover dual variables*

*Lines 196-217: Set either the upper bound or lower bound dual value to a positive value*

**Trivial\_No\_Rows()**

*Lines 224-251: check if LP is infeasible or at optimal*

**StoreHistory()**

*Lines 266-278: store data for each iteration in history data structure*

**ComputeStepFactor()**

*Lines 288-298: Initialize local variables*

*Lines 300-315: Calculate max primal step and determine if blocking variable is bound*

*Lines 317-335: Calculate max dual step and determine if blocking variable is bound*

*Lines 340-353: compute scaled complementatrity at full step*

*Lines 359-381: find primal step length using mehrotra’s adaptive step side procedure*

*Lines 385-408: find dual step length using mehrotra’s adaptive step side procedure*

**FreePCxMemory()**

*Lines 423-506: free memory used for interior point calcultations. Uses Free() from memory.c and FreeFactorType() from wssmp.c*

**MaxGondzioCorrections()**

*Lines 516-536: calculate max gondzio corrections*