Performance of DLDC on MINPACK2 Applications with 1000000 variables

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   ***************************************************
   * DLDC                            Neculai Andrei **
   * Accelerated Dai - Liao Conjugate Gradient with **
   * Guaranteed Descent and Conjugacy conditions.   **
   * ---------------------------------------------- **
   * Project: FCGA                                  **
   * The fastest conjugate gradient algorithm       **
   ***************************************************

   Parameters: descent=  .1000000000000E-01    conjugacy=  .5000000000000E-01

   Dai-Liao DC. Powell restart.     July 13, 2009
-------------------------------------------------------------------------------

     1    DLDC Algorithm. Function:    Elastic-Plastic Torsion Problem
          stoptest= 1

    n   iter   irs  fgcnt lscnt   time(c)        fxnew              gnorm
-------------------------------------------------------------------------------
1000000   1113     0   2257    30     79149 -.4393016862084E+00  .6316811679486E-04
-------------------------------------------------------------------------------
  TOTAL   1113     0   2257    30    791.49 (seconds)    proc=    .00%
```

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   * DLDC                            Neculai Andrei **
   * Accelerated Dai - Liao Conjugate Gradient with **
   * Guaranteed Descent and Conjugacy conditions.   **
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   * Project: FCGA                                  **
   * The fastest conjugate gradient algorithm       **
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   Parameters: descent=  .1000000000000E-01    conjugacy=  .5000000000000E-01

   Dai-Liao DC. Powell restart.     July 13, 2009
-------------------------------------------------------------------------------

     1    DLDC Algorithm. Function:    Pressure Distribution in a Journal Bearing
          stoptest= 1

    n   iter   irs  fgcnt lscnt   time(c)        fxnew              gnorm
-------------------------------------------------------------------------------
1000000   2838     0   5704    27    210799 -.2829101152796E+00  .8026390854130E-04
-------------------------------------------------------------------------------
  TOTAL   2838     0   5704    27   2107.99 (seconds)    proc=    .00%
```

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   * DLDC                              Neculai Andrei **
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   * Project: FCGA                                  **
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   Parameters: descent=  .1000000000000E-01    conjugacy=  .5000000000000E-01

   Dai-Liao DC. Powell restart.     July 13, 2009
--------------------------------------------------------------------------------

     1    DLDC Algorithm. Function:  Optimal Design with Composite Materials
          stoptest= 1

    n   iter   irs  fgcnt lscnt   time(c)        fxnew              gnorm
--------------------------------------------------------------------------------
1000000   4656     0   9382    69    560152 -.1138213707997E-01  .1338968058651E-03
--------------------------------------------------------------------------------
TOTAL   4656     0   9382    69   5601.52 (seconds)    proc=    .00%


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   * Project: FCGA                                  **
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   Parameters: descent=  .1000000000000E-01    conjugacy=  .5000000000000E-01

   Dai-Liao DC. Powell restart.     July 13, 2009
--------------------------------------------------------------------------------

     1    DLDC Algorithm. Function:    Steady State Combustion
          stoptest= 1

    n   iter   irs  fgcnt lscnt   time(c)        fxnew              gnorm
--------------------------------------------------------------------------------
1000000   1413     0   2864    37    232433 -.5611488188409E+01  .4244604041919E-04
--------------------------------------------------------------------------------
TOTAL   1413     0   2864    37   2324.33 (seconds)    proc=    .00%


   ****************************************************
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   * ---------------------------------------------- **
   * Project: FCGA                                  **
   * The fastest conjugate gradient algorithm       **
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   Parameters: descent=  .1000000000000E-01    conjugacy=  .5000000000000E-01

   Dai-Liao DC. Powell restart.     July 13, 2009
--------------------------------------------------------------------------------

     1    DLDC Algorithm. Function:    Minimal Surface Area
          stoptest= 1

    n   iter   irs  fgcnt lscnt   time(c)        fxnew              gnorm
--------------------------------------------------------------------------------
1000000   1219     2   2462    23    129471  .1000000298851E+01  .1476781639642E-03
--------------------------------------------------------------------------------
TOTAL   1219     2   2462    23   1294.71 (seconds)    proc=    .16%
```