>> runbfo

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* BFO: brute-force optimization without derivatives \*

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\* (c) Ph. Toint, M. Porcelli, 2018 (v 2.0) \*

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Minimizing tleedfcn

neval fx est.crit cmesh status

1 +2.799134e-01 1.036800e+00

81 +2.799134e-01 6.148977e-01 1.036800e+00 refine

84 +2.672801e-01 ----------- 2.070490e-01 +2

166 +2.640968e-01 ----------- 2.950034e-01 +41

174 +2.564365e-01 ----------- 4.203208e-01 +4

258 +2.564365e-01 1.344337e+00 5.988731e-01 refine

263 +2.556761e-01 ----------- 1.195949e-01 +3

266 +2.505457e-01 ----------- 1.703989e-01 +2

282 +2.436433e-01 ----------- 2.427843e-01 +8

305 +2.282407e-01 ----------- 3.459191e-01 +12

389 +2.282407e-01 1.647679e+00 4.928656e-01 refine

407 +2.270543e-01 ----------- 9.842525e-02 +9

491 +2.270543e-01 2.625698e-01 1.402363e-01 refine

497 +2.231241e-01 ----------- 2.800519e-02 +3

499 +2.203240e-01 ----------- 3.990179e-02 +1

502 +2.201460e-01 ----------- 5.685207e-02 +2

528 +2.181135e-01 ----------- 8.100284e-02 +13

577 +2.172913e-01 ----------- 1.154128e-01 +25

604 +2.136436e-01 ----------- 1.644402e-01 +14

688 +2.136436e-01 2.411635e+00 2.342944e-01 refine

692 +2.106578e-01 ----------- 4.678859e-02 +2

698 +2.077577e-01 ----------- 6.666439e-02 +3

782 +2.077577e-01 3.241105e-01 9.498342e-02 refine

818 +2.075220e-01 ----------- 1.896819e-02 +18

825 +2.068374e-01 ----------- 2.702588e-02 +4

856 +2.058793e-01 ----------- 3.850647e-02 +16

905 +2.045767e-01 ----------- 5.486402e-02 +25

989 +2.045767e-01 2.614254e-01 7.817025e-02 refine

1073 +2.045767e-01 1.327927e+00 1.561060e-02 refine

1157 +2.045767e-01 6.217355e+00 3.117437e-03 refine

1241 +2.045767e-01 3.321881e+01 6.225521e-04 refine

1310 +2.045767e-01 5.208076e+02 5.000000e-05 checking

1375 +2.045767e-01 2.239916e+02 5.000000e-05 checking

1441 +2.045767e-01 4.051819e+02 5.000000e-05 checking

1507 +2.045767e-01 4.042972e+02 5.000000e-05 checking