```
_CESRV>  run
Optimizing using: ALL_VARS
Data to Optimize: ORBIT & TWISS
Dmerit: Read dMerit matrix from Digested Dmerit File.
Initial merit:   4.444796
   Loop      Merit  A_lambda
   1         0.236  1.00E-04
   2         0.235  1.00E-03
   3         0.236  1.00E-02
   4         0.236  1.00E-01
   5         0.236  0.00E+00

        Top10 merit         |     Top10 derivative      |      Top10 delta
   Name      ix      Value  | Name      ix  Derivative  |  Name     ix       delta
 Eta_X       26        0.1  Quad_K1   91  -4.779E+01  Quad_K1   25   0.053787
 Eta_X       24        0.0  Quad_K1   34   4.684E+01  Quad_K1   19  -0.051596
 Eta_X       25        0.0  Quad_K1   93  -4.227E+01  Quad_K1   17   0.040659
 Eta_X       28        0.0  Quad_K1    6   4.197E+01  Quad_K1   27   0.040485
 Eta_X       33        0.0  Quad_K1   61  -4.135E+01  Quad_K1   21   0.039184
 Eta_X       27        0.0  Quad_K1   22  -4.129E+01  Quad_K1   33  -0.037759
 Eta_X       19        0.0  Quad_K1   30  -4.051E+01  Quad_K1   29   0.035131
 Eta_X       38        0.0  Quad_K1    8   4.042E+01  Quad_K1   31   0.032572
 Eta_X       18        0.0  Quad_K1   77   3.845E+01  Quad_K1    3   0.022965
 Eta_X       35        0.0  Quad_K1   71  -3.515E+01  Quad_K1   18   0.021935
 Merit:    0.2359368

Merit sum for: Orbit_X          0.0000E+00
Merit sum for: Orbit_Y          0.0000E+00
Merit sum for: Eta_X            2.3594E-01
Merit sum for: Eta_Y            0.0000E+00
Merit sum for: Tune_X           0.0000E+00
Merit sum for: Tune_Y           0.0000E+00
Merit sum for: dE/E             4.3927E-07

Merit sum for: Quad K1          0.0000E+00
                        X          |          Y
                Model     Design   |     Model     Design
      Chrom     1.002      0.996         6.979      0.652  ! dQ/(dE/E)
     dChrom     0.000                    0.000
 [dChrom = (Model - Data) - (Design - Ref) if a reference is being used.]
 [dChrom = (Model - Data) otherwise.]
```