EJECUCIÓN DEL CALCULO POR REGRESIÓN EN GNUPLOT

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jjavier98@jjavier98-All-Series:~/Escritorio/Universidad/2º año/1er Semestre/ED$ gnuplot

        G N U P L O T
        Version 5.0 patchlevel 3    last modified 2016-02-21

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        Thomas Williams, Colin Kelley and many others

        gnuplot home:     http://www.gnuplot.info
        faq, bugs, etc:   type "help FAQ"
        immediate help:   type "help"  (plot window: hit 'h')

Terminal type set to 'qt'
gnuplot> plot "tiempos.dat "
         warning: Cannot find or open file "tiempos.dat "
         No data in plot

gnuplot> plot "tiempos.dat"
gnuplot> plot "tiempos.dat"
gnuplot> f(x) = a*x**2 + b*x + c
gnuplot> fit f(x) "tiempos.dat" via a, b, c
iter      chisq       delta/lim  lambda   a             b             c
   0 9.4779952609e+18   0.00e+00  2.31e+08    1.000000e+00   1.000000e+00   1.000000e+00
   1 2.9914248058e+14  -3.17e+09  2.31e+07    5.576335e-03   9.999583e-01   1.000000e+00
   2 1.1085472916e+09  -2.70e+10  2.31e+06   -4.156031e-05   9.999560e-01   1.000000e+00
   3 1.1071345585e+09  -1.28e+02  2.31e+05   -4.186905e-05   9.997492e-01   1.000000e+00
   4 1.0627215757e+09  -4.18e+03  2.31e+04   -4.102054e-05   9.794886e-01   9.999973e-01
   5 1.1288916685e+08  -8.41e+05  2.31e+03   -1.336545e-05   3.191466e-01   9.999091e-01
   6 2.6199123903e+03  -4.31e+09  2.31e+02   -5.821890e-08   1.399464e-03   9.998656e-01
   7 6.0789401349e+00  -4.30e+07  2.31e+01    6.119671e-09  -1.367934e-04   9.997516e-01
   8 5.9425558582e+00  -2.30e+03  2.31e+00    6.080942e-09  -1.353660e-04   9.884986e-01
   9 1.2971146743e+00  -3.58e+05  2.31e-01    4.126904e-09  -6.523162e-05   4.629501e-01
  10 1.3063682502e-03  -9.92e+07  2.31e-02    2.429500e-09  -4.308407e-06   6.424788e-03
  11 1.2085820291e-03  -8.09e+03  2.31e-03    2.414627e-09  -3.774598e-06   2.424715e-03
  12 1.2085820284e-03  -6.21e-05  2.31e-04    2.414626e-09  -3.774551e-06   2.424364e-03
iter      chisq       delta/lim  lambda   a             b             c

After 12 iterations the fit converged.
final sum of squares of residuals : 0.00120858
rel. change during last iteration : -6.21164e-10

degrees of freedom    (FIT_NDF)                        : 56
rms of residuals      (FIT_STDFIT) = sqrt(WSSR/ndf)    : 0.00464562
variance of residuals (reduced chisquare) = WSSR/ndf   : 2.15818e-05

Final set of parameters            Asymptotic Standard Error
=======================            ==========================
a               = 2.41463e-09      +/- 9.235e-12    (0.3825%)
b               = -3.77455e-06     +/- 2.87e-07     (7.605%)
c               = 0.00242436       +/- 0.001879     (77.52%)

correlation matrix of the fit parameters:
                a      b      c
a               1.000
b              -0.969  1.000
c               0.757 -0.874  1.000
gnuplot>
```

VALOR DE LAS VARIABLES a, b Y c EN LA FUNCIÓN ax^2+bx+c