

Figure 1 is a line plot showing the fraction of function-target pairs that are ellipsoid separable (Y-axis, ranging from 0.0 to 1.0) versus the logarithm of the number of function evaluations per dimension (X-axis, ranging from 0 to 7). The plot compares five algorithms: SLSQP+CM (green line with upward triangles), DTS5-CMA (blue line with downward triangles), Iq-CMA-ES (red line with hexagons), Imm-CMA-ES (magenta line with diamonds), IPOPsSaACM (orange line with stars), and CMA-ES (black line with circles). The plot shows that SLSQP+CM and DTS5-CMA are the fastest algorithms, reaching a fraction of 1.0 around log10(1.5). Iq-CMA-ES reaches 1.0 around log10(2.0). Imm-CMA-ES and IPOPsSaACM reach 1.0 around log10(2.5). CMA-ES is the slowest algorithm, reaching 1.0 around log10(3.0). A text box in the top left corner specifies 'bbob f2, 3-D', '51 targets: 100..1e-08', and '11, 30, 15 Instances'. A version number 'v2.3.14' is printed in the bottom right corner.

bbob f2, 3-D  
51 targets: 100..1e-08  
11, 30, 15 Instances

v2.3.14

SLSQP+CM

DTS5-CMA

Iq-CMA-ES

Imm-CMA-ES

IPOPsACM

CMA-ES

Fraction of function, target pairs

$\log_{10}(\# \text{ f-evals} / \text{dimension})$

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