Python file: **Muts\_FPS**  (from Mariana parallel with original fitness)

Testing Mutations

**Fixed:** **fps** single\_point\_XO Pop=500 Gens =300

Running time aprox min

A graph of different colored lines

Description automatically generated

Run #1, Generation #300: Best Fitness: **555**, Time: 113.34 seconds

Run #1, Generation #300: Best Fitness: 614, Time: 113.48 seconds

Run #1, Generation #300: Best Fitness: 624, Time: 113.84 seconds

Run #1, Generation #300: Best Fitness: 630, Time: 117.51 seconds

Run #2, Generation #300: Best Fitness: 609, Time: 113.91 seconds

Run #2, Generation #300: Best Fitness: 590, Time: 114.12 seconds

Run #2, Generation #300: Best Fitness: 660, Time: 114.47 seconds

Run #2, Generation #300: Best Fitness: 657, Time: 118.72 seconds

Run #3, Generation #300: Best Fitness: 582, Time: 116.03 seconds

Run #3, Generation #300: Best Fitness: 624, Time: 116.18 seconds

Run #3, Generation #300: Best Fitness: 589, Time: 116.82 seconds

Run #3, Generation #300: Best Fitness: 630, Time: 120.15 seconds

Run #4, Generation #300: Best Fitness: 580, Time: 116.66 seconds

Run #4, Generation #300: Best Fitness: 623, Time: 117.12 seconds

Run #4, Generation #300: Best Fitness: 638, Time: 117.15 seconds

Run #4, Generation #300: Best Fitness: 602, Time: 121.19 seconds

Run #5, Generation #300: Best Fitness: 533, Time: 116.83 seconds

Run #5, Generation #300: Best Fitness: 624, Time: 117.33 seconds

Run #5, Generation #300: Best Fitness: 642, Time: 117.56 seconds

Run #5, Generation #300: Best Fitness: 605, Time: 121.23 seconds

Run #6, Generation #300: Best Fitness: 594, Time: 116.7 seconds

Run #6, Generation #300: Best Fitness: 586, Time: 116.89 seconds

Run #6, Generation #300: Best Fitness: 617, Time: 117.01 seconds

Run #6, Generation #300: Best Fitness: 616, Time: 120.55 seconds

Run #7, Generation #300: Best Fitness: 547, Time: 119.43 seconds

Run #7, Generation #300: Best Fitness: 661, Time: 119.6 seconds

Run #7, Generation #300: Best Fitness: 650, Time: 119.64 seconds

Run #7, Generation #300: Best Fitness: 611, Time: 123.86 seconds

Run #8, Generation #300: Best Fitness: 559, Time: 118.12 seconds

Run #8, Generation #300: Best Fitness: 600, Time: 118.35 seconds

Run #8, Generation #300: Best Fitness: 595, Time: 119.08 seconds

Run #8, Generation #300: Best Fitness: 605, Time: 123.18 seconds

Run #9, Generation #300: Best Fitness: 580, Time: 118.35 seconds

Run #9, Generation #300: Best Fitness: 632, Time: 118.42 seconds

Run #9, Generation #300: Best Fitness: 601, Time: 118.45 seconds

Run #9, Generation #300: Best Fitness: 638, Time: 122.1 seconds

Run #10, Generation #300: Best Fitness: 564, Time: 117.65 seconds

Run #10, Generation #300: Best Fitness: 668, Time: 117.86 seconds

Run #10, Generation #300: Best Fitness: 619, Time: 118.19 seconds

Run #10, Generation #300: Best Fitness: 597, Time: 119.83 seconds

Run #1, Generation #300: Best Fitness: 646, Time: 106.87 seconds

Run #2, Generation #300: Best Fitness: 652, Time: 109.06 seconds

Run #3, Generation #300: Best Fitness: 589, Time: 107.88 seconds

Run #4, Generation #300: Best Fitness: 640, Time: 111.51 seconds

Run #5, Generation #300: Best Fitness: 651, Time: 109.61 seconds

Run #6, Generation #300: Best Fitness: 619, Time: 110.32 seconds

Run #7, Generation #300: Best Fitness: 626, Time: 105.12 seconds

Run #8, Generation #300: Best Fitness: 630, Time: 106.28 seconds

Run #9, Generation #300: Best Fitness: 653, Time: 109.53 seconds

Run #10, Generation #300: Best Fitness: 617, Time: 108.63 seconds