>> matlabpool open local3 8

Starting matlabpool using the 'local3' configuration ... connected to 8 labs.

Best Mean Stall

Generation f-count f(x) f(x) Generations

1 200 291.2 7050 0

2 300 289.9 5031 0

3 400 101.3 4625 0

4 500 101.3 4075 1

5 600 101.3 4090 2

6 700 101.3 3499 0

7 800 101.3 5071 1

8 900 48.72 3577 0

9 1000 28.45 3226 0

10 1100 27.54 3463 0

11 1200 27.54 3382 1

12 1300 27.43 5481 0

13 1400 27.43 3349 1

14 1500 27.43 4140 0

15 1600 27.43 4063 1

16 1700 27.43 3643 0

17 1800 27.43 4944 1

18 1900 27.43 1.55e+004 2

19 2000 27.43 2.004e+004 3

20 2100 27.43 5.003e+005 4

21 2200 27.43 4353 5

22 2300 27.43 2325 6

23 2400 27.43 2831 7

24 2500 27.43 2977 8

25 2600 24.54 2612 0

26 2700 24.54 2835 1

27 2800 23.51 2768 0

28 2900 23.51 2503 1

29 3000 23.51 1.816e+006 2

30 3100 23.51 1.783e+006 3

31 3200 23.51 1.842e+006 4

32 3300 23.03 1837 0

33 3400 23.03 2474 1

34 3500 23.03 9242 2

35 3600 23.03 2275 3

36 3700 23.03 5.674e+004 4

37 3800 23.03 1.18e+004 5

38 3900 23.03 2.91e+004 6

39 4000 23.03 2568 7

40 4100 23.03 2595 8

41 4200 23.03 1795 9

42 4300 23.03 1542 10

43 4400 23.03 1263 11

44 4500 23.03 2006 12

45 4600 23.03 1.282e+004 13

46 4700 23.03 1458 14

47 4800 23.03 1.525e+004 15

48 4900 23.03 1868 16

49 5000 23.03 2106 17

50 5100 23.03 1441 18

51 5200 23.03 1752 19

52 5300 23.03 1843 20

53 5400 23.03 2565 21

54 5500 23.03 1438 22

55 5600 23.03 1443 23

56 5700 23.03 2289 24

57 5800 23.03 3562 25

58 5900 23.03 2559 26

59 6000 23.03 2324 27

60 6100 23.03 949.6 28

61 6200 23.03 2406 29

62 6300 23.03 1783 30

63 6400 23.03 1973 31

64 6500 23.03 1.556e+004 32

65 6600 23.03 4.296e+004 33

66 6700 23.03 3330 34

67 6800 21.47 3187 0

68 6900 21.47 2678 1

69 7000 21.47 945.1 2

70 7100 21.47 751.4 3

71 7200 21.47 833.8 4

72 7300 21.47 821.9 5

73 7400 21.16 827.9 0

74 7500 21.16 845.5 0

75 7600 20.47 1034 0

76 7700 20.47 782.6 1

77 7800 20.17 588 0

78 7900 20.17 408.7 1

79 8000 20.17 7667 2

80 8100 19.17 1525 0

Optimization terminated: stop requested from plot function.

Switching to the hybrid optimization algorithm (FMINSEARCH).

Iteration Func-count min f(x) Procedure

0 1 19.1699

1 7 19.1699 initial simplex

2 8 19.1699 reflect

3 10 19.1699 contract inside

4 12 19.1699 contract inside

5 13 19.1699 reflect

6 15 19.1699 contract inside

7 16 19.1699 reflect

8 18 19.1699 contract inside

9 20 19.1699 contract inside

10 22 19.1699 contract outside

11 24 19.1699 contract outside

12 26 19.1699 contract inside

13 28 19.1699 contract outside

14 30 19.1699 contract inside

15 32 19.1699 contract inside

16 34 19.1699 contract inside

17 35 19.1699 reflect

18 37 19.1699 contract inside

19 39 19.1699 contract inside

20 40 19.1699 reflect

21 42 19.1699 contract inside

22 44 19.1699 contract outside

23 46 19.1699 contract inside

24 48 19.1699 contract outside

25 50 19.1699 contract inside

26 51 19.1699 reflect

27 53 19.1699 contract inside

28 55 19.1699 contract inside

29 57 19.1699 contract inside

30 59 19.1699 contract inside

31 61 19.1699 contract inside

32 63 19.1147 contract outside

33 65 19.0002 contract inside

34 66 19.0002 reflect

35 67 19.0002 reflect

36 69 18.8696 contract inside

37 70 18.8696 reflect

38 72 18.8376 contract inside

39 74 18.8376 contract inside

40 76 18.773 contract inside

41 78 18.773 contract outside

42 80 18.773 contract inside

43 82 18.7455 contract inside

44 84 18.6858 contract inside

45 86 18.6541 contract inside

46 87 18.6541 reflect

47 89 18.6541 contract inside

48 91 18.6406 contract inside

49 93 18.6183 contract inside

50 94 18.6183 reflect

51 96 18.6183 contract inside

52 98 18.5963 contract inside

53 100 18.5963 contract outside

54 102 18.5915 contract inside

55 104 18.5915 contract inside

56 106 18.5798 contract inside

57 108 18.5798 contract inside

58 110 18.5691 contract inside

59 111 18.5691 reflect

60 113 18.5685 contract inside

61 115 18.564 contract inside

62 117 18.564 contract inside

63 119 18.5613 contract inside

64 121 18.5613 contract outside

65 123 18.5595 contract inside

66 124 18.5595 reflect

67 126 18.5481 contract inside

68 128 18.546 reflect

69 130 18.546 contract inside

70 131 18.546 reflect

71 132 18.546 reflect

72 134 18.546 contract inside

73 135 18.546 reflect

74 137 18.546 contract inside

75 139 18.546 contract inside

76 141 18.5454 contract inside

77 143 18.5454 contract inside

78 145 18.5449 contract inside

79 147 18.5444 contract inside

80 149 18.5444 contract inside

81 150 18.5444 reflect

82 151 18.5444 reflect

83 153 18.542 contract inside

84 155 18.5416 contract inside

85 156 18.5416 reflect

86 158 18.5416 contract inside

87 160 18.5414 reflect

88 162 18.5414 contract inside

89 164 18.5402 expand

90 166 18.5402 contract inside

91 168 18.5402 contract inside

92 170 18.5402 contract inside

93 172 18.5395 expand

94 173 18.5395 reflect

95 175 18.5383 expand

96 176 18.5383 reflect

97 178 18.5381 reflect

98 180 18.5335 expand

99 181 18.5335 reflect

100 182 18.5335 reflect

101 183 18.5335 reflect

102 185 18.5296 expand

103 186 18.5296 reflect

104 188 18.5237 expand

105 189 18.5237 reflect

106 190 18.5237 reflect

107 192 18.5165 expand

108 193 18.5165 reflect

109 194 18.5165 reflect

110 196 18.5059 expand

111 197 18.5059 reflect

112 199 18.4972 expand

113 200 18.4972 reflect

114 201 18.4972 reflect

115 203 18.4846 expand

116 204 18.4846 reflect

117 206 18.474 expand

118 207 18.474 reflect

119 208 18.474 reflect

120 210 18.4733 reflect

121 212 18.473 reflect

122 214 18.4666 expand

123 215 18.4666 reflect

124 216 18.4666 reflect

125 218 18.4666 contract outside

126 220 18.4666 contract inside

127 222 18.4666 contract inside

128 224 18.4634 expand

129 226 18.4602 expand

130 227 18.4602 reflect

131 229 18.4525 expand

132 230 18.4525 reflect

133 232 18.4402 expand

134 233 18.4402 reflect

135 234 18.4402 reflect

136 236 18.428 expand

137 237 18.428 reflect

138 239 18.4211 reflect

139 241 18.4133 reflect

140 242 18.4133 reflect

141 244 18.4005 expand

142 246 18.3899 expand

143 248 18.3858 reflect

144 250 18.3751 reflect

145 251 18.3751 reflect

146 253 18.3689 reflect

147 254 18.3689 reflect

148 256 18.3553 reflect

149 257 18.3553 reflect

150 259 18.3545 reflect

151 261 18.3545 contract inside

152 263 18.3513 reflect

153 264 18.3513 reflect

154 266 18.3233 expand

155 267 18.3233 reflect

156 269 18.3206 reflect

157 271 18.3206 contract inside

158 272 18.3206 reflect

159 273 18.3206 reflect

160 275 18.3107 reflect

161 276 18.3107 reflect

162 278 18.292 expand

163 280 18.292 contract inside

164 282 18.292 contract inside

165 283 18.292 reflect

166 285 18.292 contract inside

167 287 18.2819 expand

168 289 18.2819 contract inside

169 290 18.2819 reflect

170 292 18.263 expand

171 293 18.263 reflect

172 295 18.263 contract inside

173 296 18.263 reflect

174 298 18.2607 reflect

175 300 18.2607 contract inside

176 301 18.2607 reflect

177 303 18.2607 contract outside

178 305 18.2607 contract inside

179 306 18.2607 reflect

180 308 18.2475 expand

181 310 18.2395 expand

182 312 18.2395 contract inside

183 314 18.2395 contract outside

184 315 18.2395 reflect

185 316 18.2395 reflect

186 317 18.2395 reflect

187 318 18.2395 reflect

188 320 18.2395 contract inside

189 322 18.2395 contract inside

190 324 18.2364 reflect

191 326 18.23 expand

192 328 18.23 contract inside

193 330 18.23 contract inside

194 332 18.23 contract inside

195 334 18.23 contract inside

196 335 18.23 reflect

197 337 18.23 contract inside

198 339 18.228 reflect

199 341 18.2229 expand

200 342 18.2229 reflect

201 343 18.2229 reflect

202 345 18.2229 contract inside

203 347 18.2229 contract inside

204 349 18.2229 contract inside

205 350 18.2229 reflect

206 352 18.2229 contract inside

207 354 18.2229 contract inside

208 355 18.2229 reflect

209 356 18.2229 reflect

210 358 18.222 expand

211 360 18.222 contract inside

212 362 18.2204 reflect

213 364 18.2204 contract inside

214 365 18.2204 reflect

215 366 18.2204 reflect

216 367 18.2204 reflect

217 369 18.2185 reflect

218 370 18.2185 reflect

219 372 18.2185 contract inside

220 373 18.2185 reflect

221 374 18.2185 reflect

222 375 18.2185 reflect

223 377 18.2185 contract inside

224 379 18.2185 contract inside

225 380 18.2185 reflect

226 382 18.2184 reflect

227 384 18.2176 reflect

228 386 18.2169 reflect

229 388 18.216 expand

230 389 18.216 reflect

231 390 18.216 reflect

232 392 18.2157 reflect

233 394 18.2157 contract inside

234 396 18.2157 contract inside

235 398 18.2137 expand

236 400 18.2137 contract inside

237 402 18.2123 expand

238 403 18.2123 reflect

239 404 18.2123 reflect

240 405 18.2123 reflect

241 407 18.2098 expand

242 409 18.2045 expand

243 410 18.2045 reflect

244 411 18.2045 reflect

245 413 18.1994 expand

246 414 18.1994 reflect

247 415 18.1994 reflect

248 417 18.1954 expand

249 419 18.1902 expand

250 421 18.1839 expand

251 422 18.1839 reflect

252 423 18.1839 reflect

253 424 18.1839 reflect

254 426 18.1787 expand

255 428 18.1748 expand

256 429 18.1748 reflect

257 431 18.1744 reflect

258 432 18.1744 reflect

259 433 18.1744 reflect

260 435 18.1744 contract inside

261 437 18.1744 contract outside

262 439 18.1744 contract outside

263 441 18.1709 expand

264 442 18.1709 reflect

265 443 18.1709 reflect

266 445 18.1641 expand

267 446 18.1641 reflect

268 448 18.1641 contract inside

269 450 18.1578 expand

270 451 18.1578 reflect

271 452 18.1578 reflect

272 454 18.156 expand

273 456 18.1406 expand

274 457 18.1406 reflect

275 458 18.1406 reflect

276 460 18.1344 reflect

277 462 18.1208 expand

278 463 18.1208 reflect

279 464 18.1208 reflect

280 466 18.1045 expand

281 467 18.1045 reflect

282 469 18.0913 expand

283 471 18.0913 contract inside

284 472 18.0913 reflect

285 473 18.0913 reflect

286 475 18.0771 expand

287 476 18.0771 reflect

288 478 18.0634 expand

289 479 18.0634 reflect

290 480 18.0634 reflect

291 481 18.0634 reflect

292 482 18.0634 reflect

293 484 18.0458 reflect

294 486 18.0458 contract outside

295 488 18.0457 reflect

296 490 18.0419 reflect

297 491 18.0419 reflect

298 493 18.0419 contract inside

299 495 18.0419 contract inside

300 497 18.0394 reflect

301 499 18.0334 contract inside

302 501 18.0233 reflect

303 502 18.0233 reflect

304 503 18.0233 reflect

305 504 18.0233 reflect

306 506 18.0221 reflect

307 508 18.0221 contract inside

308 510 18.0221 contract inside

309 512 18.0188 reflect

310 513 18.0188 reflect

311 515 18.0188 contract inside

312 516 18.0188 reflect

313 518 18.0129 contract inside

314 519 18.0129 reflect

315 521 18.0129 contract inside

316 522 18.0129 reflect

317 523 18.0129 reflect

318 525 18.0037 expand

319 527 18.0037 contract inside

320 528 18.0037 reflect

321 530 17.994 expand

322 532 17.994 contract outside

323 534 17.994 contract inside

324 535 17.994 reflect

325 536 17.994 reflect

326 538 17.9793 expand

327 539 17.9793 reflect

328 540 17.9793 reflect

329 541 17.9793 reflect

330 542 17.9793 reflect

331 544 17.9793 contract inside

332 545 17.9793 reflect

333 546 17.9793 reflect

334 548 17.9622 expand

335 549 17.9622 reflect

336 551 17.9622 contract inside

337 552 17.9622 reflect

338 553 17.9622 reflect

339 554 17.9622 reflect

340 556 17.9578 reflect

341 558 17.9578 contract outside

342 559 17.9578 reflect

343 561 17.9578 contract inside

344 563 17.9534 expand

345 565 17.9477 expand

346 566 17.9477 reflect

347 567 17.9477 reflect

348 568 17.9477 reflect

349 570 17.9408 expand

350 571 17.9408 reflect

351 572 17.9408 reflect

352 573 17.9408 reflect

353 574 17.9408 reflect

354 576 17.9385 reflect

355 577 17.9385 reflect

356 579 17.9385 contract outside

357 581 17.9385 contract inside

358 583 17.9314 expand

359 584 17.9314 reflect

360 585 17.9314 reflect

361 587 17.9299 reflect

362 589 17.923 reflect

363 591 17.923 contract outside

364 592 17.923 reflect

365 593 17.923 reflect

366 594 17.923 reflect

367 595 17.923 reflect

368 596 17.923 reflect

369 597 17.923 reflect

370 599 17.92 reflect

371 600 17.92 reflect

372 602 17.92 contract inside

373 603 17.92 reflect

374 605 17.92 contract inside

375 607 17.92 contract inside

376 609 17.92 contract inside

377 611 17.9186 contract inside

378 612 17.9186 reflect

379 614 17.9179 reflect

380 615 17.9179 reflect

381 617 17.9179 contract inside

382 619 17.9092 expand

383 620 17.9092 reflect

384 622 17.9092 contract outside

385 623 17.9092 reflect

386 625 17.9092 contract inside

387 626 17.9092 reflect

388 628 17.9092 contract inside

389 629 17.9092 reflect

390 631 17.9059 expand

391 632 17.9059 reflect

392 634 17.904 expand

393 636 17.8963 expand

394 637 17.8963 reflect

395 639 17.8951 expand

396 640 17.8951 reflect

397 641 17.8951 reflect

398 642 17.8951 reflect

399 643 17.8951 reflect

400 644 17.8951 reflect

401 646 17.8844 expand

402 648 17.8844 contract inside

403 650 17.8844 contract inside

404 651 17.8844 reflect

405 653 17.8844 contract inside

406 654 17.8844 reflect

407 655 17.8844 reflect

408 657 17.881 expand

409 658 17.881 reflect

410 660 17.8717 expand

411 661 17.8717 reflect

412 662 17.8717 reflect

413 664 17.8677 expand

414 665 17.8677 reflect

415 667 17.8576 expand

416 669 17.8576 contract inside

417 671 17.8524 reflect

418 672 17.8524 reflect

419 674 17.8524 contract outside

420 676 17.8498 reflect

421 678 17.8374 expand

422 679 17.8374 reflect

423 680 17.8374 reflect

424 682 17.8354 reflect

425 684 17.8354 contract inside

426 686 17.8349 reflect

427 688 17.8349 contract inside

428 690 17.8349 contract inside

429 692 17.831 reflect

430 694 17.831 contract outside

431 696 17.831 contract inside

432 698 17.831 contract inside

433 700 17.831 contract inside

434 702 17.831 contract outside

435 703 17.831 reflect

436 705 17.831 contract inside

437 707 17.8288 expand

438 709 17.8282 reflect

439 711 17.8282 contract inside

440 712 17.8282 reflect

441 714 17.8271 reflect

442 716 17.8271 contract inside

443 718 17.8271 contract inside

444 719 17.8271 reflect

445 721 17.8254 reflect

446 723 17.8254 contract inside

447 724 17.8254 reflect

448 726 17.8247 reflect

449 727 17.8247 reflect

450 728 17.8247 reflect

451 730 17.8236 reflect

452 732 17.8236 contract inside

453 733 17.8236 reflect

454 734 17.8236 reflect

455 736 17.8236 contract inside

456 738 17.821 expand

457 740 17.821 contract inside

458 741 17.821 reflect

459 742 17.821 reflect

460 743 17.821 reflect

461 745 17.819 expand

462 746 17.819 reflect

463 748 17.8156 expand

464 749 17.8156 reflect

465 750 17.8156 reflect

466 751 17.8156 reflect

467 753 17.8124 expand

468 754 17.8124 reflect

469 755 17.8124 reflect

470 757 17.812 reflect

471 758 17.812 reflect

472 759 17.812 reflect

473 760 17.812 reflect

474 762 17.8073 expand

475 763 17.8073 reflect

476 764 17.8073 reflect

477 766 17.8073 contract inside

478 767 17.8073 reflect

479 768 17.8073 reflect

480 770 17.807 expand

481 772 17.8051 expand

482 773 17.8051 reflect

483 774 17.8051 reflect

484 776 17.8013 expand

485 778 17.8013 contract inside

486 779 17.8013 reflect

487 781 17.8013 contract inside

488 783 17.7977 expand

489 784 17.7977 reflect

490 785 17.7977 reflect

491 786 17.7977 reflect

492 788 17.7977 contract inside

493 790 17.7971 expand

494 792 17.7971 contract inside

495 794 17.7971 contract inside

496 796 17.7966 reflect

497 798 17.7958 reflect

498 800 17.7958 contract inside

499 802 17.7952 reflect

500 803 17.7952 reflect

501 805 17.7915 expand

502 806 17.7915 reflect

503 807 17.7915 reflect

504 808 17.7915 reflect

505 810 17.7903 reflect

506 812 17.7903 contract inside

507 814 17.7882 expand

508 815 17.7882 reflect

509 817 17.7882 contract inside

510 819 17.7882 contract inside

511 820 17.7882 reflect

512 822 17.7856 reflect

513 823 17.7856 reflect

514 825 17.7812 expand

515 826 17.7812 reflect

516 827 17.7812 reflect

517 828 17.7812 reflect

518 829 17.7812 reflect

519 830 17.7812 reflect

520 831 17.7812 reflect

521 832 17.7812 reflect

522 834 17.7812 contract inside

523 836 17.7808 reflect

524 838 17.7791 contract inside

525 840 17.7791 contract inside

526 842 17.7791 contract inside

527 844 17.7785 contract inside

528 845 17.7785 reflect

529 847 17.7785 contract inside

530 849 17.7785 contract inside

531 851 17.7785 contract inside

532 853 17.7785 contract inside

533 855 17.7784 contract inside

534 857 17.7784 contract inside

535 859 17.7774 reflect

536 861 17.7774 contract outside

537 863 17.7774 contract inside

538 864 17.7774 reflect

539 865 17.7774 reflect

540 867 17.7773 reflect

541 869 17.7773 contract inside

542 871 17.7771 reflect

543 873 17.7769 reflect

544 875 17.7769 contract inside

545 877 17.7769 contract inside

546 879 17.7769 contract inside

547 880 17.7769 reflect

548 882 17.7765 expand

549 883 17.7765 reflect

550 884 17.7765 reflect

551 886 17.7758 expand

552 887 17.7758 reflect

553 889 17.7757 reflect

554 891 17.7753 expand

555 893 17.7753 contract inside

556 895 17.7749 expand

557 897 17.7745 expand

558 899 17.7735 expand

559 900 17.7735 reflect

560 901 17.7735 reflect

561 902 17.7735 reflect

562 904 17.773 expand

563 905 17.773 reflect

564 906 17.773 reflect

565 908 17.7724 reflect

566 910 17.7717 expand

567 911 17.7717 reflect

568 913 17.7713 expand

569 914 17.7713 reflect

570 915 17.7713 reflect

571 917 17.7696 reflect

572 918 17.7696 reflect

573 919 17.7696 reflect

574 921 17.7671 expand

575 923 17.7671 contract inside

576 924 17.7671 reflect

577 926 17.7671 contract inside

578 927 17.7671 reflect

579 928 17.7671 reflect

580 930 17.7668 reflect

581 932 17.7668 contract inside

582 934 17.7668 contract inside

583 936 17.7663 reflect

584 938 17.7658 reflect

585 940 17.7658 contract inside

586 941 17.7658 reflect

587 942 17.7658 reflect

588 944 17.7658 contract inside

589 946 17.7651 expand

590 947 17.7651 reflect

591 948 17.7651 reflect

592 950 17.765 reflect

593 952 17.7632 expand

594 953 17.7632 reflect

595 955 17.7625 expand

596 956 17.7625 reflect

597 958 17.7625 contract inside

598 960 17.7625 contract inside

599 961 17.7625 reflect

600 963 17.7614 reflect

601 965 17.7608 reflect

602 967 17.7608 contract inside

603 968 17.7608 reflect

604 969 17.7608 reflect

605 971 17.7608 contract outside

606 973 17.7602 reflect

607 974 17.7602 reflect

608 976 17.7601 reflect

609 978 17.7601 contract inside

610 980 17.7595 reflect

611 982 17.7595 contract inside

612 983 17.7595 reflect

613 984 17.7595 reflect

614 986 17.7573 expand

615 987 17.7573 reflect

616 988 17.7573 reflect

617 989 17.7573 reflect

618 991 17.7568 expand

619 993 17.7568 contract inside

620 995 17.7568 contract inside

621 997 17.7568 contract inside

622 999 17.7568 contract inside

623 1001 17.7568 contract outside

624 1003 17.7563 reflect

625 1005 17.7563 contract outside

626 1006 17.7563 reflect

627 1008 17.7563 contract inside

628 1010 17.7555 expand

629 1012 17.7547 reflect

630 1013 17.7547 reflect

631 1015 17.7547 contract inside

632 1017 17.7547 contract inside

633 1018 17.7547 reflect

634 1019 17.7547 reflect

635 1021 17.7543 expand

636 1022 17.7543 reflect

637 1024 17.7538 reflect

638 1025 17.7538 reflect

639 1027 17.7529 expand

640 1028 17.7529 reflect

641 1030 17.7529 contract inside

642 1031 17.7529 reflect

643 1033 17.7529 contract outside

644 1035 17.7528 reflect

645 1036 17.7528 reflect

646 1038 17.7523 reflect

647 1040 17.7523 contract inside

648 1041 17.7523 reflect

649 1043 17.752 expand

650 1044 17.752 reflect

651 1046 17.752 contract inside

652 1048 17.7512 expand

653 1049 17.7512 reflect

654 1050 17.7512 reflect

655 1052 17.7507 reflect

656 1053 17.7507 reflect

657 1054 17.7507 reflect

658 1056 17.7499 expand

659 1057 17.7499 reflect

660 1059 17.7499 contract inside

661 1061 17.7499 contract inside

662 1063 17.7498 reflect

663 1065 17.7493 expand

664 1066 17.7493 reflect

665 1068 17.7493 contract inside

666 1070 17.7491 reflect

667 1072 17.7485 reflect

668 1074 17.7485 contract outside

669 1075 17.7485 reflect

670 1076 17.7485 reflect

671 1077 17.7485 reflect

672 1079 17.748 expand

673 1081 17.7471 expand

674 1082 17.7471 reflect

675 1083 17.7471 reflect

676 1084 17.7471 reflect

677 1086 17.7453 expand

678 1087 17.7453 reflect

679 1088 17.7453 reflect

680 1089 17.7453 reflect

681 1090 17.7453 reflect

682 1092 17.7453 contract inside

683 1093 17.7453 reflect

684 1094 17.7453 reflect

685 1096 17.7428 expand

686 1097 17.7428 reflect

687 1098 17.7428 reflect

688 1100 17.7428 contract inside

689 1101 17.7428 reflect

690 1102 17.7428 reflect

691 1104 17.7422 reflect

692 1105 17.7422 reflect

693 1106 17.7422 reflect

694 1108 17.7422 contract outside

695 1110 17.7422 contract inside

696 1112 17.7421 contract outside

697 1114 17.7416 expand

698 1116 17.7401 expand

699 1117 17.7401 reflect

700 1118 17.7401 reflect

701 1119 17.7401 reflect

702 1121 17.7392 reflect

703 1122 17.7392 reflect

704 1123 17.7392 reflect

705 1125 17.7382 reflect

706 1126 17.7382 reflect

707 1128 17.7382 contract inside

708 1130 17.7382 contract inside

709 1131 17.7382 reflect

710 1133 17.7382 contract inside

711 1135 17.7382 contract outside

712 1137 17.7379 reflect

713 1138 17.7379 reflect

714 1140 17.7379 contract inside

715 1142 17.737 expand

716 1143 17.737 reflect

717 1144 17.737 reflect

718 1146 17.737 contract inside

719 1148 17.7358 expand

720 1150 17.7358 contract inside

721 1151 17.7358 reflect

722 1152 17.7358 reflect

723 1154 17.7358 contract inside

724 1155 17.7358 reflect

725 1157 17.7358 contract inside

726 1159 17.7346 expand

727 1160 17.7346 reflect

728 1161 17.7346 reflect

729 1163 17.7334 expand

730 1164 17.7334 reflect

731 1165 17.7334 reflect

732 1167 17.7334 contract inside

733 1168 17.7334 reflect

734 1170 17.7326 expand

735 1172 17.7326 contract inside

736 1174 17.7326 contract inside

737 1176 17.7324 expand

738 1177 17.7324 reflect

739 1178 17.7324 reflect

740 1180 17.7298 expand

741 1181 17.7298 reflect

742 1182 17.7298 reflect

743 1183 17.7298 reflect

744 1184 17.7298 reflect

745 1185 17.7298 reflect

746 1186 17.7298 reflect

747 1188 17.7269 expand

748 1190 17.7269 contract outside

749 1191 17.7269 reflect

750 1192 17.7269 reflect

751 1194 17.7269 contract inside

752 1195 17.7269 reflect

753 1196 17.7269 reflect

754 1197 17.7269 reflect

755 1199 17.7269 contract inside

756 1200 17.7269 reflect

757 1202 17.7265 expand

758 1204 17.7256 reflect

759 1206 17.7248 reflect

760 1208 17.7248 contract inside

761 1209 17.7248 reflect

762 1211 17.7248 contract inside

763 1213 17.7247 reflect

764 1215 17.7243 reflect

765 1217 17.7243 contract inside

766 1219 17.7243 contract inside

767 1221 17.7241 reflect

768 1222 17.7241 reflect

769 1224 17.7225 expand

770 1226 17.7225 contract inside

771 1227 17.7225 reflect

772 1228 17.7225 reflect

773 1230 17.7225 contract inside

774 1232 17.7219 reflect

775 1233 17.7219 reflect

776 1234 17.7219 reflect

777 1236 17.7219 contract inside

778 1238 17.7219 contract outside

779 1240 17.7205 expand

780 1241 17.7205 reflect

781 1242 17.7205 reflect

782 1243 17.7205 reflect

783 1244 17.7205 reflect

784 1245 17.7205 reflect

785 1247 17.7205 reflect

786 1249 17.7202 reflect

787 1250 17.7202 reflect

788 1251 17.7202 reflect

789 1252 17.7202 reflect

790 1254 17.7195 contract inside

791 1256 17.7195 contract inside

792 1257 17.7195 reflect

793 1259 17.7195 contract inside

794 1260 17.7195 reflect

795 1262 17.7192 expand

796 1263 17.7192 reflect

797 1265 17.7189 reflect

798 1267 17.7189 contract inside

799 1268 17.7189 reflect

800 1269 17.7189 reflect

801 1270 17.7189 reflect

802 1272 17.7182 expand

803 1273 17.7182 reflect

804 1274 17.7182 reflect

805 1276 17.7182 contract inside

806 1277 17.7182 reflect

807 1278 17.7182 reflect

808 1280 17.7182 contract inside

809 1282 17.7175 expand

810 1283 17.7175 reflect

811 1284 17.7175 reflect

812 1286 17.7168 expand

813 1288 17.7168 contract inside

814 1289 17.7168 reflect

815 1290 17.7168 reflect

816 1291 17.7168 reflect

817 1293 17.7158 expand

818 1294 17.7158 reflect

819 1296 17.7158 contract inside

820 1297 17.7158 reflect

821 1299 17.7151 expand

822 1301 17.7151 contract inside

823 1302 17.7151 reflect

824 1304 17.7149 expand

825 1306 17.7134 expand

826 1307 17.7134 reflect

827 1308 17.7134 reflect

828 1309 17.7134 reflect

829 1311 17.7133 reflect

830 1312 17.7133 reflect

831 1314 17.7114 expand

832 1316 17.7114 contract inside

833 1317 17.7114 reflect

834 1318 17.7114 reflect

835 1320 17.7114 contract inside

836 1321 17.7114 reflect

837 1322 17.7114 reflect

838 1323 17.7114 reflect

839 1324 17.7114 reflect

840 1326 17.7106 expand

841 1327 17.7106 reflect

842 1329 17.7106 contract inside

843 1330 17.7106 reflect

844 1332 17.7093 expand

845 1334 17.7093 contract inside

846 1335 17.7093 reflect

847 1337 17.7092 expand

848 1338 17.7092 reflect

849 1340 17.708 reflect

850 1342 17.7068 expand

851 1343 17.7068 reflect

852 1345 17.7045 expand

853 1346 17.7045 reflect

854 1347 17.7045 reflect

855 1348 17.7045 reflect

856 1350 17.7041 reflect

857 1351 17.7041 reflect

858 1353 17.7041 contract inside

859 1355 17.7041 contract inside

860 1357 17.7041 contract outside

861 1358 17.7041 reflect

862 1359 17.7041 reflect

863 1361 17.7034 reflect

864 1362 17.7034 reflect

865 1363 17.7034 reflect

866 1365 17.7034 contract inside

867 1367 17.7034 contract inside

868 1369 17.7025 reflect

869 1371 17.7023 contract inside

870 1373 17.7023 contract outside

871 1375 17.7005 expand

872 1376 17.7005 reflect

873 1377 17.7005 reflect

874 1379 17.6996 expand

875 1381 17.6996 contract inside

876 1382 17.6996 reflect

877 1384 17.6996 contract inside

878 1385 17.6996 reflect

879 1386 17.6996 reflect

880 1387 17.6996 reflect

881 1388 17.6996 reflect

882 1389 17.6996 reflect

883 1390 17.6996 reflect

884 1392 17.6982 expand

885 1393 17.6982 reflect

886 1394 17.6982 reflect

887 1396 17.6979 reflect

888 1397 17.6979 reflect

889 1398 17.6979 reflect

890 1400 17.6979 contract inside

891 1402 17.6978 reflect

892 1403 17.6978 reflect

893 1404 17.6978 reflect

894 1406 17.6947 expand

895 1408 17.6947 contract inside

896 1409 17.6947 reflect

897 1410 17.6947 reflect

898 1411 17.6947 reflect

899 1413 17.6947 contract inside

900 1415 17.693 expand

901 1416 17.693 reflect

902 1417 17.693 reflect

903 1419 17.6906 expand

904 1421 17.6906 contract inside

905 1422 17.6906 reflect

906 1424 17.6906 contract inside

907 1425 17.6906 reflect

908 1426 17.6906 reflect

909 1428 17.6889 expand

910 1429 17.6889 reflect

911 1430 17.6889 reflect

912 1432 17.6867 expand

913 1433 17.6867 reflect

914 1435 17.6844 expand

915 1436 17.6844 reflect

916 1437 17.6844 reflect

917 1438 17.6844 reflect

918 1440 17.6844 contract inside

919 1441 17.6844 reflect

920 1443 17.6825 expand

921 1445 17.6825 contract outside

922 1446 17.6825 reflect

923 1447 17.6825 reflect

924 1448 17.6825 reflect

925 1449 17.6825 reflect

926 1451 17.6802 reflect

927 1452 17.6802 reflect

928 1454 17.6802 contract inside

929 1455 17.6802 reflect

930 1457 17.6779 reflect

931 1459 17.6779 contract inside

932 1461 17.6779 contract inside

933 1462 17.6779 reflect

934 1464 17.6779 contract inside

935 1466 17.6779 contract inside

936 1468 17.6779 contract inside

937 1469 17.6779 reflect

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939 1471 17.6779 reflect

940 1473 17.6778 reflect

941 1475 17.6765 reflect

942 1477 17.6765 contract inside

943 1478 17.6765 reflect

944 1479 17.6765 reflect

945 1481 17.676 reflect

946 1483 17.676 contract inside

947 1485 17.6751 expand

948 1486 17.6751 reflect

949 1488 17.674 expand

950 1490 17.6727 expand

951 1492 17.6712 expand

952 1493 17.6712 reflect

953 1495 17.6684 expand

954 1496 17.6684 reflect

955 1497 17.6684 reflect

956 1498 17.6684 reflect

957 1500 17.6675 expand

958 1502 17.6675 contract inside

959 1504 17.6662 expand

960 1506 17.6656 reflect

961 1508 17.6649 reflect

962 1510 17.6582 expand

963 1511 17.6582 reflect

964 1513 17.6582 contract outside

965 1514 17.6582 reflect

966 1516 17.6576 reflect

967 1518 17.6576 contract inside

968 1519 17.6576 reflect

969 1520 17.6576 reflect

970 1521 17.6576 reflect

971 1523 17.6576 contract inside

972 1525 17.6576 contract inside

973 1527 17.6554 expand

974 1528 17.6554 reflect

975 1529 17.6554 reflect

976 1530 17.6554 reflect

977 1532 17.6554 contract inside

978 1534 17.6544 reflect

979 1536 17.6522 reflect

980 1538 17.6502 expand

981 1539 17.6502 reflect

982 1541 17.6469 expand

983 1542 17.6469 reflect

984 1544 17.6437 expand

985 1546 17.6405 expand

986 1548 17.6405 contract inside

987 1549 17.6405 reflect

988 1550 17.6405 reflect

989 1551 17.6405 reflect

990 1553 17.6316 expand

991 1555 17.631 reflect

992 1557 17.631 contract inside

993 1558 17.631 reflect

994 1560 17.6255 expand

995 1562 17.6195 expand

996 1564 17.6186 reflect

997 1566 17.6186 contract inside

998 1568 17.6186 contract inside

999 1569 17.6186 reflect

1000 1571 17.6138 reflect

1001 1573 17.6138 contract inside

1002 1575 17.6138 contract inside

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1031 1623 17.6126 reflect

1032 1625 17.6125 reflect

1033 1627 17.6118 expand

1034 1628 17.6118 reflect

1035 1630 17.6118 contract inside

1036 1631 17.6118 reflect

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1038 1635 17.6118 contract outside

1039 1637 17.6118 contract inside

1040 1639 17.6118 contract inside

1041 1641 17.6118 contract inside

1042 1643 17.6118 contract inside

1043 1644 17.6118 reflect

1044 1646 17.6114 reflect

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1096 1734 17.6113 contract inside

1097 1736 17.6113 contract outside

1098 1737 17.6113 reflect

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1101 1742 17.6113 contract inside

1102 1743 17.6113 reflect

1103 1745 17.6113 contract inside

1104 1747 17.6113 expand

1105 1748 17.6113 reflect

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1114 1761 17.6112 expand

1115 1762 17.6112 reflect

1116 1763 17.6112 reflect

1117 1765 17.6111 expand

1118 1766 17.6111 reflect

1119 1768 17.6111 expand

1120 1769 17.6111 reflect

1121 1771 17.611 expand

1122 1772 17.611 reflect

1123 1774 17.6109 expand

1124 1775 17.6109 reflect

1125 1777 17.6108 expand

1126 1778 17.6108 reflect

1127 1780 17.6106 expand

1128 1781 17.6106 reflect

1129 1783 17.6103 expand

1130 1784 17.6103 reflect

1131 1786 17.6099 expand

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1137 1795 17.608 expand

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1140 1799 17.6069 reflect

1141 1801 17.6058 expand

1142 1802 17.6058 reflect

1143 1804 17.6046 expand

1144 1805 17.6046 reflect

1145 1807 17.6039 expand

1146 1808 17.6039 reflect

1147 1810 17.6038 reflect

1148 1811 17.6038 reflect

1149 1812 17.6038 reflect

1150 1814 17.6038 contract outside

1151 1816 17.6038 contract inside

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1156 1826 17.6038 contract outside

1157 1828 17.6038 contract inside

1158 1830 17.6038 contract inside

1159 1832 17.6038 expand

1160 1833 17.6038 reflect

1161 1834 17.6038 reflect

1162 1836 17.6038 contract inside

1163 1837 17.6038 reflect

1164 1838 17.6038 reflect

1165 1839 17.6038 reflect

1166 1841 17.6037 expand

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1172 1849 17.6035 expand

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1174 1851 17.6035 reflect

1175 1853 17.6034 expand

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1178 1857 17.6032 expand

1179 1858 17.6032 reflect

1180 1860 17.6029 expand

1181 1862 17.6026 expand

1182 1863 17.6026 reflect

1183 1864 17.6026 reflect

1184 1866 17.602 expand

1185 1867 17.602 reflect

1186 1869 17.6012 expand

1187 1870 17.6012 reflect

1188 1871 17.6012 reflect

1189 1873 17.6004 expand

1190 1874 17.6004 reflect

1191 1876 17.5999 reflect

1192 1878 17.5995 reflect

1193 1880 17.5995 contract inside

1194 1882 17.5995 contract inside

1195 1884 17.5995 contract inside

1196 1886 17.5995 contract inside

1197 1887 17.5995 reflect

1198 1889 17.5995 contract inside

1199 1891 17.5995 contract inside

1200 1893 17.5995 contract inside

1201 1894 17.5995 reflect

1202 1896 17.5991 expand

1203 1898 17.599 reflect

1204 1899 17.599 reflect

1205 1901 17.599 contract inside

1206 1903 17.5988 expand

1207 1905 17.5981 expand

1208 1906 17.5981 reflect

1209 1908 17.598 expand

1210 1909 17.598 reflect

1211 1911 17.5974 expand

1212 1912 17.5974 reflect

1213 1913 17.5974 reflect

1214 1915 17.5974 contract inside

1215 1917 17.5974 contract inside

1216 1919 17.5974 contract inside

1217 1921 17.5974 contract inside

1218 1923 17.5973 reflect

1219 1925 17.5973 contract inside

1220 1927 17.5973 contract inside

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1223 1932 17.5973 contract inside

1224 1934 17.5973 contract inside

1225 1935 17.5973 reflect

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1227 1938 17.5973 contract inside

1228 1940 17.5973 contract inside

1229 1942 17.5973 contract inside

1230 1944 17.5973 contract inside

1231 1946 17.5973 contract inside

1232 1948 17.5973 contract inside

1233 1950 17.5973 reflect

1234 1952 17.5973 contract inside

1235 1954 17.5973 contract inside

1236 1955 17.5973 reflect

1237 1957 17.5973 contract inside

1238 1959 17.5973 expand

1239 1961 17.5973 contract inside

1240 1962 17.5973 reflect

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1242 1965 17.5973 contract inside

1243 1967 17.5972 reflect

1244 1969 17.5972 contract inside

1245 1971 17.5972 expand

1246 1972 17.5972 reflect

1247 1974 17.5971 expand

1248 1975 17.5971 reflect

1249 1977 17.5971 expand

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1251 1980 17.597 expand

1252 1982 17.5969 expand

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1254 1984 17.5969 reflect

1255 1986 17.5968 expand

1256 1987 17.5968 reflect

1257 1989 17.5966 expand

1258 1991 17.5965 expand

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1262 1996 17.5962 expand

1263 1997 17.5962 reflect

1264 1999 17.596 expand

1265 2000 17.596 reflect

1266 2001 17.596 reflect

1267 2002 17.596 reflect

1268 2003 17.596 reflect

1269 2005 17.5956 expand

1270 2007 17.5956 contract outside

1271 2008 17.5956 reflect

1272 2010 17.5953 expand

1273 2011 17.5953 reflect

1274 2012 17.5953 reflect

1275 2014 17.5947 expand

1276 2016 17.594 expand

1277 2017 17.594 reflect

1278 2018 17.594 reflect

1279 2020 17.5933 expand

1280 2022 17.5921 expand

1281 2024 17.5905 expand

1282 2025 17.5905 reflect

1283 2026 17.5905 reflect

1284 2028 17.5878 expand

1285 2029 17.5878 reflect

1286 2031 17.5872 reflect

1287 2033 17.5839 expand

1288 2034 17.5839 reflect

1289 2036 17.583 reflect

1290 2038 17.5808 reflect

1291 2039 17.5808 reflect

1292 2040 17.5808 reflect

1293 2042 17.5747 expand

1294 2043 17.5747 reflect

1295 2044 17.5747 reflect

1296 2046 17.5747 contract inside

1297 2047 17.5747 reflect

1298 2048 17.5747 reflect

1299 2050 17.5727 expand

1300 2052 17.5666 expand

1301 2053 17.5666 reflect

1302 2054 17.5666 reflect

1303 2056 17.5627 expand

1304 2057 17.5627 reflect

1305 2058 17.5627 reflect

1306 2060 17.5574 expand

1307 2061 17.5574 reflect

1308 2063 17.5574 contract inside

1309 2064 17.5574 reflect

1310 2066 17.5544 expand

1311 2067 17.5544 reflect

1312 2068 17.5544 reflect

1313 2070 17.5513 expand

1314 2072 17.544 reflect

1315 2074 17.5408 reflect

1316 2076 17.5408 contract inside

1317 2078 17.5309 expand

1318 2079 17.5309 reflect

1319 2080 17.5309 reflect

1320 2081 17.5309 reflect

1321 2083 17.5309 contract inside

1322 2084 17.5309 reflect

1323 2086 17.5309 contract inside

1324 2088 17.5309 contract inside

1325 2089 17.5309 reflect

1326 2090 17.5309 reflect

1327 2092 17.5209 expand

1328 2094 17.5209 contract inside

1329 2096 17.5209 contract inside

1330 2097 17.5209 reflect

1331 2098 17.5209 reflect

1332 2100 17.5156 reflect

1333 2102 17.5156 contract inside

1334 2103 17.5156 reflect

1335 2105 17.5135 reflect

1336 2106 17.5135 reflect

1337 2107 17.5135 reflect

1338 2109 17.5026 expand

1339 2111 17.5026 contract inside

1340 2112 17.5026 reflect

1341 2113 17.5026 reflect

1342 2115 17.5026 contract inside

1343 2116 17.5026 reflect

1344 2118 17.5026 contract inside

1345 2119 17.5026 reflect

1346 2121 17.4941 expand

1347 2122 17.4941 reflect

1348 2124 17.4941 contract inside

1349 2125 17.4941 reflect

1350 2126 17.4941 reflect

1351 2127 17.4941 reflect

1352 2129 17.4836 expand

1353 2130 17.4836 reflect

1354 2131 17.4836 reflect

1355 2133 17.4836 contract inside

1356 2134 17.4836 reflect

1357 2135 17.4836 reflect

1358 2137 17.4812 expand

1359 2139 17.4812 contract inside

1360 2141 17.4805 reflect

1361 2143 17.4697 expand

1362 2144 17.4697 reflect

1363 2145 17.4697 reflect

1364 2147 17.4683 reflect

1365 2149 17.4664 reflect

1366 2151 17.4664 contract inside

1367 2152 17.4664 reflect

1368 2154 17.4636 contract inside

1369 2156 17.4544 expand

1370 2158 17.4544 contract inside

1371 2160 17.4544 contract inside

1372 2161 17.4544 reflect

1373 2163 17.4524 expand

1374 2164 17.4524 reflect

1375 2166 17.4524 contract inside

1376 2168 17.4524 contract outside

1377 2169 17.4524 reflect

1378 2170 17.4524 reflect

1379 2172 17.4449 expand

1380 2173 17.4449 reflect

1381 2174 17.4449 reflect

1382 2176 17.4322 expand

1383 2177 17.4322 reflect

1384 2178 17.4322 reflect

1385 2180 17.4322 contract outside

1386 2182 17.4301 reflect

1387 2184 17.4249 expand

1388 2186 17.4222 reflect

1389 2188 17.4222 contract inside

1390 2190 17.4222 contract inside

1391 2192 17.4222 contract inside

1392 2193 17.4222 reflect

1393 2195 17.4175 expand

1394 2196 17.4175 reflect

1395 2198 17.4148 reflect

1396 2200 17.4016 expand

1397 2201 17.4016 reflect

1398 2202 17.4016 reflect

1399 2203 17.4016 reflect

1400 2205 17.4016 contract inside

1401 2206 17.4016 reflect

1402 2208 17.4016 contract inside

1403 2209 17.4016 reflect

1404 2211 17.3905 expand

1405 2212 17.3905 reflect

1406 2213 17.3905 reflect

1407 2214 17.3905 reflect

1408 2216 17.3817 expand

1409 2218 17.3749 expand

1410 2219 17.3749 reflect

1411 2221 17.3749 contract outside

1412 2222 17.3749 reflect

1413 2224 17.3606 expand

1414 2226 17.3606 contract inside

1415 2228 17.3606 contract inside

1416 2230 17.3606 contract inside

1417 2231 17.3606 reflect

1418 2232 17.3606 reflect

1419 2234 17.3606 contract inside

1420 2235 17.3606 reflect

1421 2236 17.3606 reflect

1422 2238 17.3606 contract outside

1423 2239 17.3606 reflect

1424 2240 17.3606 reflect

1425 2241 17.3606 reflect

1426 2243 17.3606 contract inside

1427 2245 17.3606 contract inside

1428 2247 17.3606 contract inside

1429 2249 17.3606 contract inside

1430 2251 17.3606 contract inside

1431 2253 17.3606 contract inside

1432 2255 17.3606 contract outside

1433 2257 17.3606 contract inside

1434 2259 17.3606 contract inside

1435 2261 17.3606 contract inside

1436 2263 17.3557 expand

1437 2264 17.3557 reflect

1438 2265 17.3557 reflect

1439 2267 17.3532 reflect

1440 2268 17.3532 reflect

1441 2270 17.3532 contract inside

1442 2271 17.3532 reflect

1443 2272 17.3532 reflect

1444 2273 17.3532 reflect

1445 2275 17.3532 contract inside

1446 2277 17.3532 contract inside

1447 2279 17.3532 contract inside

1448 2281 17.3532 contract inside

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1450 2285 17.3532 contract inside

1451 2287 17.3532 contract outside

1452 2289 17.3532 contract inside

1453 2291 17.3532 reflect

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1457 2297 17.3532 contract inside

1458 2299 17.3532 contract inside

1459 2301 17.3532 contract inside

1460 2303 17.3527 reflect

1461 2304 17.3527 reflect

1462 2306 17.3527 contract inside

1463 2308 17.3527 contract inside

1464 2310 17.3527 contract inside

1465 2312 17.3527 contract outside

1466 2313 17.3527 reflect

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1468 2316 17.3527 reflect

1469 2318 17.3527 contract inside

1470 2320 17.3527 contract inside

1471 2322 17.3527 contract inside

1472 2324 17.3527 contract outside

1473 2326 17.3527 contract inside

1474 2327 17.3527 reflect

1475 2329 17.3527 contract inside

1476 2331 17.3526 reflect

1477 2333 17.3526 reflect

1478 2335 17.3526 contract inside

1479 2337 17.3526 contract inside

1480 2339 17.3526 contract inside

1481 2341 17.3526 contract inside

1482 2343 17.3526 contract inside

1483 2345 17.3526 contract inside

1484 2347 17.3526 reflect

1485 2349 17.3526 contract inside

1486 2351 17.3526 contract inside

1487 2352 17.3526 reflect

1488 2354 17.3525 reflect

1489 2356 17.3525 contract inside

1490 2358 17.3525 contract inside

1491 2359 17.3525 reflect

1492 2361 17.3525 reflect

1493 2363 17.3525 contract inside

1494 2365 17.3525 contract inside

1495 2367 17.3525 contract inside

1496 2369 17.3525 contract inside

1497 2371 17.3525 contract inside

1498 2373 17.3525 contract inside

1499 2375 17.3525 contract inside

1500 2376 17.3525 reflect

1501 2378 17.3525 contract inside

1502 2379 17.3525 reflect

1503 2381 17.3525 contract inside

1504 2383 17.3525 reflect

1505 2385 17.3525 contract inside

1506 2387 17.3525 contract inside

1507 2389 17.3525 contract inside

1508 2391 17.3525 reflect

1509 2393 17.3525 contract inside

1510 2395 17.3525 reflect

1511 2397 17.3525 contract inside

1512 2398 17.3525 reflect

1513 2400 17.3525 contract inside

Exiting: Maximum number of function evaluations has been exceeded

- increase MaxFunEvals option.

Current function value: 17.352494

FMINSEARCH terminated.

**x =[184.3311,1.141,0.7427,1.1738,0.0000,-1.5685]; fval =17.3525;**

exitflag =-1

output =

problemtype: 'unconstrained'

rngstate: [1x1 struct]

generations: 80

funccount: 10500

message: [1x223 char]

population =

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.8130 1.0884 0.7437 1.0415 1.1868 -1.6300

186.9091 1.0884 0.7437 1.0415 0.7477 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.9091 1.0884 0.7437 1.0830 0.6815 -1.5427

186.9091 1.2333 0.4864 1.0415 0.7699 -1.5427

186.7344 1.2965 1.0146 0.6200 0.6277 -1.6194

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.3841 1.5903 0.5365 1.0415 0.9471 -1.5427

186.9394 1.0086 0.4770 1.0415 0.7477 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7477 -1.5427

186.7784 1.0884 0.7437 1.0415 0.7477 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

187.0271 1.0884 0.7437 1.1384 0.4940 -1.5838

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.8945 1.0884 0.7437 1.0415 0.7699 -1.5427

186.9091 1.0613 0.7437 1.0415 0.6091 -1.3813

186.8945 1.0884 0.7437 1.0415 0.7699 -1.5427

186.9091 0.8599 0.7437 1.0415 0.6402 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7477 -1.5427

186.8945 0.7966 0.7523 1.2886 0.4856 -1.8266

186.6417 1.0884 0.9395 1.0415 0.3913 -1.3478

186.5932 1.1497 0.4010 1.0415 0.9190 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7477 -1.5427

186.6931 1.0884 0.9484 1.0415 0.9425 -1.5427

186.7112 1.0884 0.7437 1.0709 0.5499 -1.6205

187.3503 0.9933 0.6237 1.0415 0.7699 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.8945 1.0884 0.7437 1.0415 0.7699 -1.5427

187.3377 1.3536 0.3138 1.0415 0.6774 -1.5427

187.1974 1.3925 0.5669 1.2716 0.7043 -1.0150

186.4834 1.0884 0.7437 1.0415 1.0297 -1.5427

187.1789 0.9436 0.7437 1.0182 0.7699 -1.6080

186.9091 1.0884 0.7437 1.0830 0.7477 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.6192 1.2795 0.6867 1.1611 0.6624 -1.6617

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

187.0018 1.0884 0.7437 1.0415 0.6539 -1.5427

186.9091 1.0884 0.7437 1.0415 0.6402 -1.5427

186.8945 1.0884 0.7437 1.0415 0.7477 -1.2917

186.9091 1.0884 0.7437 1.0415 0.6815 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.9091 1.0884 0.7437 0.9254 0.7699 -1.5427

186.6192 1.2750 0.8664 1.0415 0.6624 -1.6617

186.8945 1.0884 0.7437 1.0415 0.7477 -1.5427

187.0948 1.0884 0.7437 1.0415 0.7699 -1.5427

186.7845 0.6794 0.7437 0.9957 0.7699 -1.5427

185.9652 1.0135 0.7437 1.2730 0.8296 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7477 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.9091 1.0884 0.7437 0.8337 0.7477 -1.5427

186.6663 0.1691 0.4555 1.0469 0.7477 -1.4451

186.8945 1.1986 0.7437 1.0415 0.8296 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

187.0948 1.0884 0.7437 1.0415 0.7699 -1.5427

186.8945 1.0884 0.7523 1.0415 0.7699 -1.5427

186.9091 1.0884 0.7437 1.0415 0.9425 -1.5427

186.9975 1.0884 0.7437 0.8337 0.7477 -1.5427

186.4272 1.0884 0.7437 1.1249 0.7477 -1.6171

186.8945 1.0884 0.7437 0.8263 0.7699 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.8780

186.9091 1.0884 0.7437 1.0415 0.8884 -1.5427

186.8945 1.0815 0.7479 1.0415 0.7477 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5985

186.8945 0.9097 0.7437 1.0415 0.7699 -1.5427

186.8945 1.0884 0.7437 1.0415 0.7477 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.9091 1.0884 0.7437 1.0404 0.7699 -1.5427

186.8945 1.0884 0.7437 1.0415 0.7477 -1.0150

186.9091 1.0884 0.7437 1.0415 0.7699 -2.4304

186.6562 1.1423 0.7437 1.0415 0.8296 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.9091 1.0884 0.7437 1.0415 0.7477 -1.5117

186.9091 1.0884 0.7437 1.0415 0.7699 -1.5427

186.5782 1.2477 0.7437 1.0415 0.6400 -1.5427

187.0827 1.2313 0.9173 0.8057 0.4456 -1.4284

186.9608 1.1053 1.0607 1.2698 0.4995 -1.5751

186.6635 0.9267 0.8151 1.1620 0.8200 -1.4987

187.4518 1.0319 0.9210 1.1077 1.1653 -1.6613

187.0473 0.6859 0.4648 0.8613 0.8761 -1.4133

187.1352 1.3536 0.4875 0.7437 0.6896 -1.5062

186.9506 1.1398 0.6210 1.0437 0.5525 -1.6853

187.0416 0.8089 0.6834 1.1206 0.4642 -1.8854

187.0015 1.0784 0.8118 0.9291 0.9050 -1.5597

186.9713 0.9978 0.8171 0.8769 1.0976 -1.4075

186.8173 1.0386 0.7141 1.1328 0.9243 -1.5957

187.0432 1.4949 0.7215 1.1697 0.4838 -1.4764

186.7824 1.0982 0.4616 1.3058 0.6665 -1.5499

187.0445 1.1253 0.7171 1.0161 0.6683 -1.3782

187.2707 0.9429 0.5598 1.1491 0.4041 -1.1179

186.7008 0.9198 0.6283 0.7917 0.7877 -1.7667

187.0896 1.0346 0.7890 0.8263 0.6715 -1.6257

186.6514 1.0618 0.7900 0.9945 0.8627 -1.6396

187.0566 1.3519 0.8658 1.2535 0.7157 -1.4466

186.4629 1.0753 0.7899 0.9470 0.4006 -1.7634

scores =

1.0e+005 \*

0.0002

0.0002

0.0013

0.0002

0.0002

0.0005

0.0069

1.0890 - 0.1704i

0.0002

0.0282

0.0022

0.0002

0.0002

0.0002

0.0011

0.0002

0.0002

0.0020

0.0002

0.0074

0.0002

0.0136

0.0037

0.0035

0.0002

0.0019

0.0009

0.0029

0.0002

0.0002

0.0002

0.0135

0.0066

0.0002

0.0051

0.0005

0.0002

0.0076

0.0002

0.0002

0.0003

0.0017

0.0002

0.0002

0.0006

0.0079

0.0002

0.0002

0.0118

0.0054

0.0002

0.0002

0.0003

0.0389

0.0044

0.0002

0.0002

0.0002

0.0002

0.0003

0.0003

0.0014

0.0003

0.0045

0.0002

0.0005

0.0002

0.0007

0.0060

0.0002

0.0002

0.0002

0.0002

0.0046

0.0146

0.0021

0.0002

0.0003

0.0002

0.0062

0.0024

0.0941 - 0.0293i

0.0067

0.0041

0.0117

0.0123

0.0043

0.0127

0.0005

0.0040

0.0027

0.0178

0.0030

0.0010

0.0071

0.0076

0.0029

0.0017

0.0061

0.0029

Caculation finished and the elapsedTime= 74.2345hours

Sending a stop signal to all the labs ... stopped.

**x =[184.3311,1.141,0.7427,1.1738,0.0000,-1.5685]; % fval =17.3525;**

x =[1.8433110e+002,1.1409700e+0,7.4265068e-001,1.1737824e+0,8.0448518e-008,-1.5684599e+0];

**P\_asterisk =17.3525; L =1.0000; delta =-8.5199e-009; AR =3.7643; Re =167.7386;**

**penaltyfun1 =1.7040e-005; penaltyfun2 =0; penaltyfun5 =0; obj\_function =17.3525;**

**由如下初始值代入计算而得：% 继续遗传1000代+2400代局部搜索**

**x\_start =[188,1.0884,0.9265,1.2201,2.5,-1.5427]; %六个变量的翅膀运动学参数—作为初始值**

x=[188,1.0884,0.9265,1.2201,2.5,-1.5427]; % P\_asterisk =9.1731; L = 0.8364; delta =-0.1636; % C\_maxyaxis=0.36;

x=[188,1.0884,0.9265,1.2201,2.5,-1.5427]; % P\_asterisk =9.1731; L = 0.8381; delta =-0.1636; % C\_maxyaxis=0.356736;