>> matlabpool open local2 12

Starting matlabpool using the 'local2' configuration ... connected to 12 labs.

Best Mean Stall

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

1 200 9.506 1.626e+004 0

2 300 9.506 1.028e+004 1

3 400 9.506 3.725e+004 2

4 500 9.506 7185 3

5 600 9.506 6753 4

6 700 9.506 1.157e+004 5

7 800 9.506 5.359e+007 6

8 900 9.506 6008 7

9 1000 9.506 1.15e+004 8

10 1100 9.506 5569 9

11 1200 9.506 5286 10

12 1300 8.218 4440 0

13 1400 8.218 4638 1

14 1500 8.218 6427 2

15 1600 8.218 5154 3

16 1700 8.218 5672 4

17 1800 8.218 3489 5

18 1900 8.218 3971 6

19 2000 8.218 4449 7

20 2100 8.218 5586 8

21 2200 8.218 3350 9

22 2300 8.218 2962 10

23 2400 8.218 2697 11

24 2500 8.218 2656 12

25 2600 8.218 4.133e+004 13

26 2700 8.218 2662 14

27 2800 8.218 2410 15

28 2900 8.218 2956 16

29 3000 8.218 2369 17

30 3100 8.218 2068 18

31 3200 8.218 2076 19

Optimization terminated: stop requested from plot function.

Switching to the hybrid optimization algorithm (FMINSEARCH).

Iteration Func-count min f(x) Procedure

0 1 8.21763

1 11 7.83188 initial simplex

2 12 7.83188 reflect

3 14 7.83188 contract inside

4 15 7.83188 reflect

5 17 7.83188 contract inside

6 18 7.83188 reflect

7 19 7.83188 reflect

8 21 7.83188 contract inside

9 23 7.83188 contract inside

10 25 7.83188 contract inside

11 27 7.83188 contract inside

12 29 7.83188 contract inside

13 31 7.83188 contract outside

14 33 7.83188 contract inside

15 35 7.83188 contract inside

16 37 7.83188 contract inside

17 39 7.83188 contract inside

18 40 7.83188 reflect

19 42 7.83188 contract inside

20 44 7.83188 contract inside

21 46 7.83188 contract inside

22 48 7.83188 contract inside

23 50 7.83188 contract inside

24 52 7.83188 contract inside

25 54 7.83188 contract inside

26 56 7.83188 contract inside

27 58 7.83188 contract inside

28 60 7.83188 contract inside

29 62 7.83188 contract inside

30 64 7.83188 contract inside

31 66 7.83188 contract inside

32 68 7.83188 contract inside

33 70 7.83188 contract inside

34 72 7.83188 contract outside

35 74 7.83188 contract inside

36 76 7.83188 contract inside

37 78 7.83188 contract inside

38 80 7.83188 contract outside

39 82 7.83188 contract inside

40 84 7.83188 contract inside

41 86 7.83188 contract inside

42 88 7.83188 contract inside

43 90 7.83188 contract inside

44 91 7.83188 reflect

45 93 7.83188 contract inside

46 95 7.83188 contract inside

47 97 7.78394 contract inside

48 99 7.78394 contract inside

49 101 7.70191 contract inside

50 103 7.49519 contract inside

51 105 7.41774 contract inside

52 106 7.41774 reflect

53 108 7.40775 contract inside

54 110 7.35742 contract inside

55 112 7.28517 contract inside

56 113 7.28517 reflect

57 115 7.28517 contract inside

58 117 7.28517 contract outside

59 119 7.25264 contract inside

60 120 7.25264 reflect

61 122 7.25264 contract inside

62 124 7.22199 contract inside

63 126 7.22199 contract inside

64 128 7.10782 contract inside

65 130 7.05479 contract inside

66 131 7.05479 reflect

67 133 7.04442 contract inside

68 135 7.04442 contract inside

69 137 7.04442 contract inside

70 139 7.0286 contract inside

71 141 7.0286 contract inside

72 143 7.02437 contract inside

73 145 7.00253 contract inside

74 147 7.00253 contract inside

75 149 6.98254 contract inside

76 151 6.93745 contract outside

77 153 6.92578 contract inside

78 155 6.9118 contract inside

79 157 6.90237 contract inside

80 158 6.90237 reflect

81 160 6.90237 contract inside

82 162 6.90237 contract inside

83 164 6.90237 contract inside

84 166 6.90237 contract inside

85 168 6.89363 contract inside

86 170 6.89363 contract inside

87 172 6.88353 contract inside

88 174 6.85825 contract inside

89 175 6.85825 reflect

90 177 6.85412 contract inside

91 179 6.85061 contract inside

92 180 6.85061 reflect

93 182 6.84883 contract inside

94 184 6.84883 contract outside

95 186 6.84883 contract inside

96 188 6.84883 contract inside

97 190 6.84803 contract inside

98 192 6.84526 contract inside

99 193 6.84526 reflect

100 195 6.83896 contract inside

101 197 6.83896 contract inside

102 199 6.82736 contract inside

103 200 6.82736 reflect

104 202 6.82736 contract inside

105 204 6.82619 contract inside

106 206 6.82477 contract inside

107 207 6.82477 reflect

108 209 6.82319 contract inside

109 211 6.82165 contract inside

110 212 6.82165 reflect

111 214 6.82165 contract inside

112 216 6.82165 contract inside

113 218 6.82029 contract inside

114 219 6.82029 reflect

115 221 6.81996 contract inside

116 223 6.81996 contract inside

117 225 6.81494 contract inside

118 227 6.81389 contract inside

119 228 6.81389 reflect

120 230 6.81389 contract inside

121 232 6.81389 contract inside

122 234 6.81389 contract inside

123 236 6.8131 contract inside

124 238 6.8131 contract outside

125 240 6.8124 contract inside

126 242 6.8124 contract inside

127 244 6.8124 contract inside

128 246 6.81199 contract inside

129 248 6.80933 contract inside

130 249 6.80933 reflect

131 251 6.80933 contract inside

132 253 6.80933 contract inside

133 255 6.80933 contract inside

134 257 6.80922 contract inside

135 259 6.80922 contract inside

136 261 6.80906 contract inside

137 263 6.80885 contract inside

138 265 6.80843 contract inside

139 266 6.80843 reflect

140 268 6.80836 contract inside

141 270 6.80836 contract inside

142 272 6.80728 contract inside

143 274 6.80728 contract inside

144 276 6.80717 contract inside

145 277 6.80717 reflect

146 279 6.80717 contract inside

147 281 6.80717 contract inside

148 283 6.80717 contract inside

149 285 6.80702 contract inside

150 287 6.80702 contract inside

151 289 6.80684 contract inside

152 291 6.80673 contract inside

153 293 6.80673 contract outside

154 295 6.8065 contract inside

155 297 6.80634 contract inside

156 299 6.80627 contract inside

157 300 6.80627 reflect

158 301 6.80627 reflect

159 303 6.80617 contract inside

160 305 6.8061 contract inside

161 306 6.8061 reflect

162 308 6.8061 contract inside

163 310 6.8061 contract outside

164 312 6.8061 contract inside

165 314 6.80606 contract inside

166 315 6.80606 reflect

167 317 6.80606 contract inside

168 319 6.80595 contract inside

169 321 6.80591 contract inside

170 322 6.80591 reflect

171 324 6.80586 contract inside

172 326 6.80582 contract inside

173 328 6.80577 contract inside

174 330 6.80574 contract inside

175 331 6.80574 reflect

176 333 6.80574 contract inside

177 335 6.80574 contract inside

178 337 6.80574 contract inside

179 339 6.80574 contract inside

180 341 6.8057 contract inside

181 343 6.80567 contract inside

182 345 6.80567 contract inside

183 346 6.80567 reflect

184 348 6.80563 contract inside

185 350 6.80563 contract inside

186 352 6.80563 contract inside

187 354 6.80563 contract inside

188 356 6.80563 contract outside

189 358 6.8056 contract inside

190 359 6.8056 reflect

191 361 6.8056 contract inside

192 363 6.80558 contract inside

193 365 6.80558 contract inside

194 366 6.80558 reflect

195 368 6.80558 contract inside

196 370 6.80557 contract inside

197 372 6.80557 contract inside

198 374 6.80556 contract inside

199 376 6.80555 contract inside

200 377 6.80555 reflect

201 379 6.80555 contract inside

202 381 6.80555 contract inside

203 383 6.80554 contract inside

204 385 6.80553 contract inside

205 386 6.80553 reflect

206 388 6.80553 contract inside

207 390 6.80553 contract inside

208 392 6.80553 contract inside

209 394 6.80553 contract inside

210 396 6.80553 contract inside

211 398 6.80552 contract inside

212 400 6.80552 contract inside

213 402 6.80552 contract inside

214 404 6.80552 contract outside

215 406 6.80551 contract inside

216 408 6.80551 contract inside

217 410 6.80551 contract inside

218 412 6.80551 contract inside

219 414 6.80551 contract inside

220 416 6.80551 contract inside

221 417 6.80551 reflect

222 419 6.80551 contract inside

223 421 6.80551 contract inside

224 423 6.80551 contract inside

225 424 6.80551 reflect

226 426 6.8055 contract inside

227 428 6.8055 contract inside

228 430 6.8055 reflect

229 432 6.8055 contract inside

230 434 6.8055 contract inside

231 435 6.8055 reflect

232 436 6.8055 reflect

233 438 6.8055 contract inside

234 439 6.8055 reflect

235 441 6.8055 contract inside

236 443 6.8055 contract inside

237 445 6.8055 contract inside

238 447 6.8055 contract inside

239 449 6.8055 contract inside

240 450 6.8055 reflect

241 452 6.8055 contract inside

242 453 6.8055 reflect

243 455 6.8055 contract inside

244 457 6.8055 contract inside

245 459 6.8055 contract inside

246 460 6.8055 reflect

247 461 6.8055 reflect

248 462 6.8055 reflect

249 463 6.8055 reflect

250 465 6.8055 contract inside

251 466 6.8055 reflect

252 467 6.8055 reflect

253 468 6.8055 reflect

254 470 6.8055 contract inside

255 472 6.8055 contract inside

256 474 6.8055 contract inside

257 476 6.80549 reflect

258 477 6.80549 reflect

259 479 6.80549 contract inside

260 481 6.80549 contract inside

261 482 6.80549 reflect

262 484 6.80549 contract inside

263 486 6.80549 contract inside

264 488 6.80549 contract inside

265 489 6.80549 reflect

266 490 6.80549 reflect

267 492 6.80549 contract inside

268 493 6.80549 reflect

269 494 6.80549 reflect

270 495 6.80549 reflect

271 497 6.80549 contract inside

272 499 6.80549 contract outside

273 501 6.80549 reflect

274 503 6.80549 expand

275 504 6.80549 reflect

276 506 6.80549 expand

277 507 6.80549 reflect

278 508 6.80549 reflect

279 510 6.80549 contract inside

280 512 6.80549 contract inside

281 514 6.80549 expand

282 515 6.80549 reflect

283 517 6.80549 expand

284 518 6.80549 reflect

285 519 6.80549 reflect

286 520 6.80549 reflect

287 521 6.80549 reflect

288 522 6.80549 reflect

289 524 6.80549 expand

290 525 6.80549 reflect

291 526 6.80549 reflect

292 527 6.80549 reflect

293 528 6.80549 reflect

294 530 6.80548 expand

295 531 6.80548 reflect

296 532 6.80548 reflect

297 533 6.80548 reflect

298 534 6.80548 reflect

299 536 6.80548 expand

300 537 6.80548 reflect

301 538 6.80548 reflect

302 539 6.80548 reflect

303 541 6.80547 expand

304 542 6.80547 reflect

305 543 6.80547 reflect

306 545 6.80546 expand

307 546 6.80546 reflect

308 547 6.80546 reflect

309 549 6.80545 expand

310 550 6.80545 reflect

311 551 6.80545 reflect

312 552 6.80545 reflect

313 554 6.80544 expand

314 555 6.80544 reflect

315 556 6.80544 reflect

316 558 6.80543 expand

317 559 6.80543 reflect

318 560 6.80543 reflect

319 562 6.80541 expand

320 563 6.80541 reflect

321 564 6.80541 reflect

322 565 6.80541 reflect

323 567 6.80538 expand

324 568 6.80538 reflect

325 569 6.80538 reflect

326 570 6.80538 reflect

327 572 6.80535 expand

328 573 6.80535 reflect

329 574 6.80535 reflect

330 576 6.80532 expand

331 577 6.80532 reflect

332 578 6.80532 reflect

333 580 6.80526 expand

334 581 6.80526 reflect

335 582 6.80526 reflect

336 583 6.80526 reflect

337 585 6.80519 expand

338 586 6.80519 reflect

339 587 6.80519 reflect

340 588 6.80519 reflect

341 590 6.8051 expand

342 591 6.8051 reflect

343 592 6.8051 reflect

344 593 6.8051 reflect

345 595 6.80498 expand

346 596 6.80498 reflect

347 597 6.80498 reflect

348 598 6.80498 reflect

349 600 6.80483 expand

350 601 6.80483 reflect

351 602 6.80483 reflect

352 603 6.80483 reflect

353 605 6.80467 expand

354 606 6.80467 reflect

355 607 6.80467 reflect

356 609 6.80448 expand

357 610 6.80448 reflect

358 611 6.80448 reflect

359 613 6.80419 expand

360 614 6.80419 reflect

361 615 6.80419 reflect

362 616 6.80419 reflect

363 618 6.8038 expand

364 619 6.8038 reflect

365 620 6.8038 reflect

366 621 6.8038 reflect

367 623 6.80338 expand

368 624 6.80338 reflect

369 625 6.80338 reflect

370 626 6.80338 reflect

371 628 6.80279 expand

372 629 6.80279 reflect

373 630 6.80279 reflect

374 631 6.80279 reflect

375 633 6.80207 expand

376 634 6.80207 reflect

377 635 6.80207 reflect

378 636 6.80207 reflect

379 638 6.80133 expand

380 639 6.80133 reflect

381 640 6.80133 reflect

382 642 6.80056 expand

383 643 6.80056 reflect

384 644 6.80056 reflect

385 646 6.79949 expand

386 647 6.79949 reflect

387 648 6.79949 reflect

388 649 6.79949 reflect

389 651 6.79831 expand

390 652 6.79831 reflect

391 653 6.79831 reflect

392 654 6.79831 reflect

393 656 6.79739 expand

394 657 6.79739 reflect

395 658 6.79739 reflect

396 659 6.79739 reflect

397 661 6.79682 expand

398 662 6.79682 reflect

399 663 6.79682 reflect

400 664 6.79682 reflect

401 666 6.79681 reflect

402 667 6.79681 reflect

403 668 6.79681 reflect

404 669 6.79681 reflect

405 670 6.79681 reflect

406 672 6.79681 contract outside

407 674 6.79681 contract inside

408 676 6.79681 contract outside

409 678 6.79681 contract inside

410 680 6.79681 contract inside

411 682 6.79681 contract inside

412 684 6.79681 contract inside

413 686 6.79681 contract outside

414 688 6.79681 contract inside

415 690 6.79681 contract inside

416 692 6.79681 contract inside

417 694 6.79681 contract outside

418 696 6.79681 contract inside

419 698 6.79681 contract inside

420 700 6.79681 contract inside

421 701 6.79681 reflect

422 703 6.79681 contract inside

423 705 6.79681 contract inside

424 707 6.79681 contract inside

425 709 6.79681 contract outside

426 711 6.79681 contract inside

427 713 6.79681 contract inside

428 715 6.79681 contract inside

429 717 6.7968 expand

430 719 6.7968 contract inside

431 720 6.7968 reflect

432 721 6.7968 reflect

433 722 6.7968 reflect

434 724 6.7968 contract inside

435 726 6.7968 contract inside

436 728 6.7968 contract inside

437 729 6.7968 reflect

438 730 6.7968 reflect

439 731 6.7968 reflect

440 732 6.7968 reflect

441 733 6.7968 reflect

442 734 6.7968 reflect

443 736 6.79679 expand

444 737 6.79679 reflect

445 738 6.79679 reflect

446 740 6.79679 expand

447 741 6.79679 reflect

448 742 6.79679 reflect

449 743 6.79679 reflect

450 744 6.79679 reflect

451 745 6.79679 reflect

452 746 6.79679 reflect

453 748 6.79679 expand

454 750 6.79677 expand

455 751 6.79677 reflect

456 752 6.79677 reflect

457 753 6.79677 reflect

458 754 6.79677 reflect

459 756 6.79676 expand

460 757 6.79676 reflect

461 758 6.79676 reflect

462 759 6.79676 reflect

463 761 6.79673 expand

464 762 6.79673 reflect

465 763 6.79673 reflect

466 764 6.79673 reflect

467 765 6.79673 reflect

468 766 6.79673 reflect

469 768 6.79671 expand

470 769 6.79671 reflect

471 770 6.79671 reflect

472 772 6.79669 expand

473 773 6.79669 reflect

474 774 6.79669 reflect

475 776 6.79666 expand

476 777 6.79666 reflect

477 778 6.79666 reflect

478 780 6.79661 expand

479 781 6.79661 reflect

480 782 6.79661 reflect

481 783 6.79661 reflect

482 784 6.79661 reflect

483 786 6.79653 expand

484 787 6.79653 reflect

485 788 6.79653 reflect

486 789 6.79653 reflect

487 791 6.79646 expand

488 792 6.79646 reflect

489 793 6.79646 reflect

490 794 6.79646 reflect

491 796 6.79637 expand

492 797 6.79637 reflect

493 799 6.79624 expand

494 800 6.79624 reflect

495 801 6.79624 reflect

496 802 6.79624 reflect

497 804 6.79609 expand

498 805 6.79609 reflect

499 806 6.79609 reflect

500 807 6.79609 reflect

501 809 6.79583 expand

502 810 6.79583 reflect

503 811 6.79583 reflect

504 812 6.79583 reflect

505 814 6.79556 expand

506 815 6.79556 reflect

507 816 6.79556 reflect

508 817 6.79556 reflect

509 819 6.79521 expand

510 820 6.79521 reflect

511 821 6.79521 reflect

512 822 6.79521 reflect

513 824 6.79465 expand

514 825 6.79465 reflect

515 826 6.79465 reflect

516 827 6.79465 reflect

517 829 6.79412 expand

518 830 6.79412 reflect

519 831 6.79412 reflect

520 832 6.79412 reflect

521 834 6.79346 expand

522 835 6.79346 reflect

523 837 6.79254 expand

524 838 6.79254 reflect

525 839 6.79254 reflect

526 840 6.79254 reflect

527 842 6.7913 expand

528 843 6.7913 reflect

529 844 6.7913 reflect

530 845 6.7913 reflect

531 847 6.7909 reflect

532 848 6.7909 reflect

533 850 6.7896 expand

534 851 6.7896 reflect

535 852 6.7896 reflect

536 854 6.7896 contract outside

537 855 6.7896 reflect

538 856 6.7896 reflect

539 857 6.7896 reflect

540 859 6.7896 contract outside

541 861 6.7896 contract inside

542 862 6.7896 reflect

543 864 6.78808 expand

544 866 6.78808 contract inside

545 867 6.78808 reflect

546 868 6.78808 reflect

547 869 6.78808 reflect

548 870 6.78808 reflect

549 871 6.78808 reflect

550 872 6.78808 reflect

551 873 6.78808 reflect

552 875 6.78725 expand

553 876 6.78725 reflect

554 877 6.78725 reflect

555 878 6.78725 reflect

556 880 6.7862 expand

557 882 6.78438 expand

558 883 6.78438 reflect

559 884 6.78438 reflect

560 885 6.78438 reflect

561 886 6.78438 reflect

562 888 6.78201 expand

563 889 6.78201 reflect

564 890 6.78201 reflect

565 892 6.78015 expand

566 893 6.78015 reflect

567 894 6.78015 reflect

568 895 6.78015 reflect

569 896 6.78015 reflect

570 897 6.78015 reflect

571 899 6.77884 expand

572 900 6.77884 reflect

573 902 6.77719 expand

574 904 6.77407 expand

575 905 6.77407 reflect

576 906 6.77407 reflect

577 907 6.77407 reflect

578 908 6.77407 reflect

579 909 6.77407 reflect

580 911 6.77407 contract inside

581 913 6.77407 contract outside

582 914 6.77407 reflect

583 915 6.77407 reflect

584 916 6.77407 reflect

585 918 6.771 expand

586 919 6.771 reflect

587 920 6.771 reflect

588 921 6.771 reflect

589 923 6.76882 expand

590 925 6.76882 reflect

591 927 6.76832 reflect

592 928 6.76832 reflect

593 930 6.76468 expand

594 931 6.76468 reflect

595 933 6.76468 contract outside

596 934 6.76468 reflect

597 936 6.76468 contract inside

598 937 6.76468 reflect

599 939 6.76392 expand

600 940 6.76392 reflect

601 941 6.76392 reflect

602 942 6.76392 reflect

603 943 6.76392 reflect

604 944 6.76392 reflect

605 945 6.76392 reflect

606 946 6.76392 reflect

607 947 6.76392 reflect

608 948 6.76392 reflect

609 950 6.76019 reflect

610 952 6.76019 contract inside

611 953 6.76019 reflect

612 955 6.75958 reflect

613 957 6.75958 contract inside

614 958 6.75958 reflect

615 959 6.75958 reflect

616 961 6.75958 contract inside

617 962 6.75958 reflect

618 964 6.75958 contract inside

619 965 6.75958 reflect

620 966 6.75958 reflect

621 968 6.7592 reflect

622 970 6.7592 contract inside

623 971 6.7592 reflect

624 973 6.7592 contract inside

625 974 6.7592 reflect

626 975 6.7592 reflect

627 977 6.7592 contract inside

628 979 6.7592 contract inside

629 980 6.7592 reflect

630 981 6.7592 reflect

631 983 6.75806 reflect

632 985 6.7572 reflect

633 987 6.7572 contract inside

634 988 6.7572 reflect

635 990 6.7572 contract outside

636 992 6.7572 contract inside

637 993 6.7572 reflect

638 994 6.7572 reflect

639 996 6.7572 contract inside

640 998 6.7572 contract inside

641 999 6.7572 reflect

642 1000 6.7572 reflect

643 1001 6.7572 reflect

644 1002 6.7572 reflect

645 1004 6.75672 reflect

646 1006 6.75542 expand

647 1007 6.75542 reflect

648 1008 6.75542 reflect

649 1009 6.75542 reflect

650 1010 6.75542 reflect

651 1011 6.75542 reflect

652 1013 6.75446 reflect

653 1015 6.75291 expand

654 1016 6.75291 reflect

655 1017 6.75291 reflect

656 1019 6.75291 contract inside

657 1020 6.75291 reflect

658 1021 6.75291 reflect

659 1023 6.75291 contract outside

660 1024 6.75291 reflect

661 1026 6.75271 reflect

662 1027 6.75271 reflect

663 1028 6.75271 reflect

664 1029 6.75271 reflect

665 1031 6.75271 contract inside

666 1032 6.75271 reflect

667 1033 6.75271 reflect

668 1035 6.75195 reflect

669 1036 6.75195 reflect

670 1037 6.75195 reflect

671 1039 6.75195 contract inside

672 1041 6.75182 reflect

673 1043 6.75182 contract outside

674 1045 6.75049 reflect

675 1047 6.75049 contract inside

676 1049 6.75049 contract inside

677 1050 6.75049 reflect

678 1052 6.75049 contract inside

679 1053 6.75049 reflect

680 1054 6.75049 reflect

681 1055 6.75049 reflect

682 1057 6.75049 contract inside

683 1059 6.74987 expand

684 1060 6.74987 reflect

685 1062 6.74866 expand

686 1063 6.74866 reflect

687 1064 6.74866 reflect

688 1065 6.74866 reflect

689 1066 6.74866 reflect

690 1068 6.74866 contract outside

691 1070 6.74866 contract inside

692 1072 6.74807 expand

693 1073 6.74807 reflect

694 1074 6.74807 reflect

695 1075 6.74807 reflect

696 1077 6.74807 contract inside

697 1079 6.74798 reflect

698 1081 6.74575 expand

699 1082 6.74575 reflect

700 1083 6.74575 reflect

701 1084 6.74575 reflect

702 1085 6.74575 reflect

703 1086 6.74575 reflect

704 1087 6.74575 reflect

705 1089 6.74575 contract inside

706 1091 6.74575 contract outside

707 1092 6.74575 reflect

708 1093 6.74575 reflect

709 1095 6.74501 reflect

710 1097 6.74452 expand

711 1099 6.74428 expand

712 1101 6.74428 contract inside

713 1102 6.74428 reflect

714 1103 6.74428 reflect

715 1105 6.74421 reflect

716 1107 6.74421 contract inside

717 1109 6.74384 expand

718 1110 6.74384 reflect

719 1112 6.74267 reflect

720 1113 6.74267 reflect

721 1114 6.74267 reflect

722 1115 6.74267 reflect

723 1116 6.74267 reflect

724 1118 6.74027 expand

725 1119 6.74027 reflect

726 1120 6.74027 reflect

727 1121 6.74027 reflect

728 1122 6.74027 reflect

729 1123 6.74027 reflect

730 1124 6.74027 reflect

731 1126 6.74027 contract inside

732 1128 6.73946 expand

733 1130 6.73946 contract inside

734 1131 6.73946 reflect

735 1132 6.73946 reflect

736 1133 6.73946 reflect

737 1134 6.73946 reflect

738 1135 6.73946 reflect

739 1136 6.73946 reflect

740 1138 6.73866 reflect

741 1140 6.73866 contract inside

742 1141 6.73866 reflect

743 1142 6.73866 reflect

744 1144 6.73658 expand

745 1145 6.73658 reflect

746 1147 6.73658 contract outside

747 1149 6.73658 contract inside

748 1150 6.73658 reflect

749 1152 6.73658 contract inside

750 1153 6.73658 reflect

751 1155 6.73658 contract outside

752 1157 6.73623 expand

753 1158 6.73623 reflect

754 1160 6.73623 contract inside

755 1162 6.73623 contract inside

756 1163 6.73623 reflect

757 1165 6.73623 contract inside

758 1167 6.73543 expand

759 1168 6.73543 reflect

760 1169 6.73543 reflect

761 1170 6.73543 reflect

762 1171 6.73543 reflect

763 1172 6.73543 reflect

764 1174 6.73479 reflect

765 1175 6.73479 reflect

766 1177 6.73479 contract inside

767 1179 6.73434 reflect

768 1181 6.73434 contract inside

769 1183 6.73434 contract inside

770 1185 6.73387 reflect

771 1187 6.73286 expand

772 1189 6.73286 contract inside

773 1190 6.73286 reflect

774 1192 6.73286 contract inside

775 1193 6.73286 reflect

776 1195 6.73286 contract inside

777 1196 6.73286 reflect

778 1197 6.73286 reflect

779 1198 6.73286 reflect

780 1200 6.73286 contract inside

781 1201 6.73286 reflect

782 1202 6.73286 reflect

783 1203 6.73286 reflect

784 1205 6.73286 contract inside

785 1207 6.73276 reflect

786 1209 6.73255 reflect

787 1210 6.73255 reflect

788 1211 6.73255 reflect

789 1212 6.73255 reflect

790 1214 6.73243 contract inside

791 1215 6.73243 reflect

792 1217 6.73201 expand

793 1219 6.73201 contract inside

794 1221 6.73169 expand

795 1223 6.73091 expand

796 1224 6.73091 reflect

797 1225 6.73091 reflect

798 1226 6.73091 reflect

799 1227 6.73091 reflect

800 1229 6.73091 contract outside

801 1230 6.73091 reflect

802 1231 6.73091 reflect

803 1232 6.73091 reflect

804 1233 6.73091 reflect

805 1234 6.73091 reflect

806 1236 6.72989 expand

807 1238 6.72989 contract outside

808 1239 6.72989 reflect

809 1240 6.72989 reflect

810 1242 6.72989 contract inside

811 1243 6.72989 reflect

812 1244 6.72989 reflect

813 1246 6.72929 expand

814 1248 6.72929 contract inside

815 1249 6.72929 reflect

816 1250 6.72929 reflect

817 1252 6.72863 expand

818 1253 6.72863 reflect

819 1254 6.72863 reflect

820 1256 6.72863 contract inside

821 1257 6.72863 reflect

822 1259 6.72792 reflect

823 1260 6.72792 reflect

824 1262 6.72792 contract inside

825 1263 6.72792 reflect

826 1264 6.72792 reflect

827 1266 6.72754 reflect

828 1268 6.72754 contract inside

829 1269 6.72754 reflect

830 1270 6.72754 reflect

831 1272 6.72754 contract inside

832 1273 6.72754 reflect

833 1275 6.72724 expand

834 1276 6.72724 reflect

835 1277 6.72724 reflect

836 1279 6.72724 contract inside

837 1281 6.72724 contract inside

838 1282 6.72724 reflect

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840 1284 6.72724 reflect

841 1285 6.72724 reflect

842 1287 6.72588 expand

843 1288 6.72588 reflect

844 1289 6.72588 reflect

845 1291 6.72588 contract inside

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850 1297 6.72588 contract outside

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852 1299 6.72588 reflect

853 1300 6.72588 reflect

854 1302 6.72588 contract inside

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856 1305 6.72588 contract inside

857 1307 6.72578 reflect

858 1309 6.72564 reflect

859 1310 6.72564 reflect

860 1311 6.72564 reflect

861 1313 6.72564 contract inside

862 1315 6.72564 contract inside

863 1317 6.72564 contract inside

864 1319 6.72521 expand

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866 1322 6.72521 contract inside

867 1324 6.72521 contract inside

868 1326 6.72521 contract inside

869 1327 6.72521 reflect

870 1329 6.72503 expand

871 1330 6.72503 reflect

872 1332 6.72449 expand

873 1333 6.72449 reflect

874 1334 6.72449 reflect

875 1335 6.72449 reflect

876 1336 6.72449 reflect

877 1337 6.72449 reflect

878 1339 6.7238 expand

879 1340 6.7238 reflect

880 1342 6.72337 expand

881 1343 6.72337 reflect

882 1344 6.72337 reflect

883 1346 6.72337 contract outside

884 1347 6.72337 reflect

885 1348 6.72337 reflect

886 1349 6.72337 reflect

887 1350 6.72337 reflect

888 1351 6.72337 reflect

889 1352 6.72337 reflect

890 1353 6.72337 reflect

891 1355 6.72308 expand

892 1357 6.72308 contract outside

893 1358 6.72308 reflect

894 1359 6.72308 reflect

895 1361 6.72308 contract inside

896 1363 6.72301 expand

897 1365 6.72301 contract inside

898 1367 6.72266 reflect

899 1368 6.72266 reflect

900 1370 6.72199 expand

901 1371 6.72199 reflect

902 1372 6.72199 reflect

903 1374 6.7218 expand

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905 1376 6.7218 reflect

906 1377 6.7218 reflect

907 1378 6.7218 reflect

908 1380 6.72133 reflect

909 1381 6.72133 reflect

910 1383 6.72133 contract inside

911 1385 6.72133 contract inside

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938 1418 6.72022 reflect

939 1420 6.72022 contract inside

940 1421 6.72022 reflect

941 1423 6.71921 expand

942 1425 6.71921 contract inside

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944 1428 6.71921 reflect

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974 1467 6.7185 reflect

975 1469 6.7185 contract inside

976 1471 6.7185 contract inside

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980 1477 6.71786 expand

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984 1482 6.71786 contract inside

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994 1495 6.71713 expand

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996 1497 6.71713 reflect

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1228 1869 6.71561 contract inside

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1234 1880 6.71561 contract inside

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1244 1894 6.71561 reflect

1245 1896 6.71561 contract inside

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1300 1986 6.71561 reflect

1301 1987 6.71561 reflect

1302 1989 6.71561 contract outside

1303 1990 6.71561 reflect

1304 1992 6.71561 reflect

1305 1994 6.71561 contract inside

1306 1995 6.71561 reflect

1307 1996 6.71561 reflect

1308 1998 6.71561 contract inside

1309 2000 6.71561 contract inside

Exiting: Maximum number of function evaluations has been exceeded

- increase MaxFunEvals option.

Current function value: 6.715608

FMINSEARCH terminated.

**x =[60.7851,1.3022,0.117,1.2287,2.5887,-1.5391,4.0,1.9111,1.8118,0.0020];**

**fval =6.7156;**

exitflag =-1;

output =

problemtype: 'unconstrained'

rngstate: [1x1 struct]

generations: 31

funccount: 5200

message: [1x222 char]

population =

Columns 1 through 5

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60.2550 1.3090 0.1322 1.2201 2.5000

60.2550 1.1911 -0.1204 1.2201 3.1465

60.2550 1.3090 0.1322 1.2201 2.5000

60.0825 1.7776 0.1322 1.2201 3.3117

60.2550 1.3090 0.1322 1.2201 2.5000

60.4063 1.0903 -0.3711 1.5497 2.5000

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60.2728 1.3090 0.7279 1.2201 2.5000

60.6582 1.3090 0.5297 1.2201 2.5000

60.2550 1.3090 0.1322 1.2201 2.5000

60.2550 1.7213 0.1322 0.8312 2.5719

59.4762 0.3627 -1.2349 1.2201 2.0788

60.2550 1.3090 0.1322 1.2201 2.5000

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59.8727 1.5598 0.3704 0.8067 2.4250

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60.3837 1.7796 0.4916 1.0987 1.8007

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60.5980 1.9454 0.3808 0.6691 2.7504

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59.1271 2.1418 0.1908 1.8135 3.1251

60.4303 1.8022 0.0831 1.3817 2.7621

60.5278 1.5971 0.5251 1.1770 2.5169

61.0007 2.2242 -0.4011 1.2448 2.4591

60.5502 0.7343 0.4215 1.1560 2.5352

60.5766 0.8176 0.6322 0.9142 2.7337

Columns 6 through 10

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.7675 3.9809 1.9640 1.7827 0.0485

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.8466 1.9835 1.8882 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.6522 1.7827 0.2168

-1.5427 3.9809 1.9640 1.7827 0

-1.8639 3.4211 1.9640 1.9630 -0.1901

-1.5306 4.3684 1.8990 1.1242 0.3091

-1.5427 3.9809 1.9640 1.7827 0.9143

-1.8874 3.9809 1.9640 1.7827 0.8626

-1.5427 3.9809 2.4715 1.7827 0.9420

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.6160 1.8628 1.7827 0

-1.5427 3.9809 2.5418 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-2.3911 3.9809 1.9640 1.8051 -0.1589

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.8421 1.7528 1.7827 0.6721

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9290 2.3762 1.7827 0

-1.5427 3.9809 1.9640 1.7827 -0.5264

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.8278 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 4.6799 1.6214 1.7827 0

-1.5427 3.9809 2.2702 1.7001 -0.2568

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.6252 3.9809 1.6066 1.7827 0

-1.5427 4.1149 1.9640 2.5971 0

-1.5427 3.9809 1.9640 1.2411 -0.0072

-1.5427 3.9809 1.9640 1.7827 0

-1.6841 4.1374 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7494 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 4.3684 1.9640 1.1242 0.3091

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.8421 2.2536 1.7827 0.4459

-1.5427 4.1717 2.4954 1.6514 0

-1.5427 4.3908 1.9640 2.3990 0

-1.5427 3.9809 1.7029 1.5154 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.6214 1.7827 0

-0.8618 3.9809 1.9640 1.8214 0

-1.2869 3.9809 2.0662 1.7827 0.0563

-1.5427 4.0115 1.9640 1.7827 0

-1.5427 3.9809 1.9640 2.0992 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5370 3.4294 2.0666 2.1084 0.3591

-1.5427 3.9809 1.9640 1.7827 -0.0291

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.7646 1.9640 1.7827 0

-0.9898 5.0621 1.9623 2.8330 0.1080

-1.5427 3.9809 1.9640 1.7827 0

-1.5079 3.8025 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.6841 4.1374 1.4334 1.5068 0.4493

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.6431 1.9640 2.0992 0

-1.5427 3.9809 1.9811 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.9127 0

-1.5427 4.1696 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0

-1.5427 3.9809 1.9640 1.7827 0.9482

-1.6271 4.0719 1.5245 2.3169 -0.3029

-1.7250 3.4602 2.0457 1.6283 -0.2401

-1.3426 4.2101 2.3356 1.9612 0.0563

-1.8177 3.5394 2.0411 1.8621 0.1998

-1.5818 3.9217 1.2381 1.4514 0.4003

-1.1387 4.1371 1.4398 1.1963 -0.0249

-1.8270 3.8172 1.9438 1.5020 1.0543

-1.9110 2.5236 1.6817 2.0267 0.5589

-1.3857 3.8796 1.6093 1.8421 0.7459

-0.9117 3.5245 1.5918 1.5756 -0.8434

-0.8482 2.8019 2.2941 2.4786 0.3253

-1.5952 4.0177 1.7878 1.7074 0.0144

-1.2937 3.4684 2.1775 2.0625 -0.3639

-1.8011 4.0554 1.9149 1.9557 -0.1228

-1.4626 3.9164 2.2588 1.7223 -0.2249

-1.8163 3.9904 1.5114 0.9884 0.1546

-1.6816 4.1703 2.5247 2.1337 0.1215

-1.4317 3.7876 1.6210 0.7554 -1.2320

-1.6703 4.4150 2.4164 2.0753 -0.0151

-1.9323 3.8193 1.7819 1.4335 0.2001

scores =

1.0e+004 \*

0.0008

0.0008

0.0008

0.0771

0.0008

0.3904

0.0008

0.2145

0.0008

0.3720

0.3071

0.4537

0.4932

1.1379 + 0.0002i

0.0008

0.2829

0.3275

0.0499

0.0008

0.0008

0.4617

0.0009

0.2694

0.0008

0.1538

0.3032

0.4382

0.0008

0.0710

0.0008

0.0839

0.2889

0.6505

0.0037

0.0008

0.0008

0.0835

0.0156

0.0008

0.0008

0.0499

0.1414

0.2351

0.0008

0.0907

0.0201

0.0008

0.3077

0.0008

0.0008

0.3355

0.3324

0.1551

0.0448

0.0008

0.0261

0.0110

0.2925

0.0903

0.0320

0.0008

0.3608

0.0228

0.0008

0.0008

0.2173

0.7891

0.0008

0.2154

0.0008

0.0008

0.2426

0.0008

0.0134

0.0029

0.0008

0.0093

0.0493

0.0008

0.4539

0.3603

0.4212

0.6337

0.4010

0.1173

0.0925

0.6810

0.6065

0.2917

0.6071

0.6248

0.2856

0.8035

0.1382

0.7187

0.1971

0.5196

1.2621

0.3311

0.1686

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

Destroying 1 pre-existing parallel job(s) created by matlabpool.

Caculation finished and the elapsedTime= 43.7862hours

**x =[60.7851,1.3022,0.117,1.2287,2.5887,-1.5391,4.0,1.9111,1.8118,0.0020];**

**下面的是精确值：**

**x =[6.0785080e+001,1.3022446e+0,1.1701290e-001,1.2287380e+0,2.5886607e+0, -1.5391296e+0,4.0e+0,1.9110757e+0,1.8117575e+0,1.9869022e-003];**

**P\_asterisk =6.7156; L =1.0000; delta =-1.9318e-008; AR =3.0411; Re =237.6147;**

**penaltyfun1 =3.8635e-005; penaltyfun2 =0; penaltyfun5 =0; obj\_function =6.7156;**

**Rario\_F\_vertical\_horiz\_aver =2.8567;**

**F\_vertical\_to\_horiz\_rms =1.0173;**

**P\_aero\_aver\_to\_inertia\_aver =2.4905;**

**由以下初始值代入计算而得： % 继续遗传50代+2000代局部搜索**

**x\_start=[60.255,1.30898,0.01,1.2201,2.5,-1.5427,3.9809,1.964,1.7827,0.0000];**

**% P\_asterisk=6.8426; L =1.0013;**