>> matlabpool open local1 12

Starting matlabpool using the 'local1' configuration ... connected to 12 labs.

Best Mean Stall

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

1 200 12.48 4835 0

2 300 12.48 4878 1

3 400 12.48 4424 2

4 500 12.48 4137 3

5 600 12.48 5096 4

6 700 12.48 4779 5

7 800 12.48 3502 6

8 900 12.48 3264 7

9 1000 12.48 2902 8

10 1100 12.48 3261 9

11 1200 12.48 5563 10

12 1300 12.48 4207 11

13 1400 12.48 2262 12

14 1500 12.48 2018 13

15 1600 12.48 2382 14

16 1700 12.48 2907 15

17 1800 12.48 1847 16

18 1900 12.48 1863 17

19 2000 12.48 2337 18

20 2100 12.48 2422 19

Optimization terminated: stop requested from plot function.

Switching to the hybrid optimization algorithm (FMINSEARCH).

Iteration Func-count min f(x) Procedure

0 1 12.4812

1 7 12.4812 initial simplex

2 8 12.4812 reflect

3 10 12.4812 contract inside

4 12 12.4812 contract inside

5 14 12.4812 contract outside

6 16 12.4812 contract inside

7 18 12.4812 contract outside

8 20 12.4812 contract inside

9 22 12.4812 contract inside

10 24 12.4812 contract inside

11 26 12.4812 contract inside

12 28 12.4812 contract inside

13 30 12.4812 contract inside

14 32 12.4812 contract outside

15 34 12.4812 contract inside

16 36 12.4812 contract outside

17 38 12.4812 contract inside

18 40 12.4812 contract inside

19 41 12.4812 reflect

20 43 12.4812 contract inside

21 45 12.4812 contract inside

22 47 12.4812 contract inside

23 49 12.4812 contract inside

24 51 12.4812 contract inside

25 53 12.4812 contract inside

26 55 12.4812 contract inside

27 57 12.4812 contract inside

28 59 12.4812 contract inside

29 61 12.4812 contract inside

30 63 12.4812 contract inside

31 65 12.4812 contract inside

32 67 12.4812 contract inside

33 69 12.4489 contract inside

34 71 12.4489 contract inside

35 73 12.4489 contract inside

36 75 12.4295 contract inside

37 77 12.4169 contract inside

38 79 12.4169 contract inside

39 81 12.4169 contract inside

40 82 12.4169 reflect

41 84 12.4169 contract inside

42 86 12.3976 contract inside

43 87 12.3976 reflect

44 89 12.3976 contract inside

45 91 12.3976 contract inside

46 93 12.3976 contract inside

47 94 12.3976 reflect

48 96 12.3914 contract outside

49 97 12.3914 reflect

50 99 12.3914 contract inside

51 101 12.3796 reflect

52 102 12.3796 reflect

53 104 12.3275 expand

54 106 12.3275 contract inside

55 108 12.3275 contract inside

56 109 12.3275 reflect

57 110 12.3275 reflect

58 111 12.3275 reflect

59 113 12.3275 contract inside

60 114 12.3275 reflect

61 115 12.3275 reflect

62 116 12.3275 reflect

63 118 12.2954 reflect

64 120 12.2954 contract inside

65 122 12.2905 reflect

66 123 12.2905 reflect

67 125 12.2905 contract inside

68 126 12.2905 reflect

69 127 12.2905 reflect

70 129 12.2864 contract inside

71 131 12.2864 contract inside

72 133 12.2673 expand

73 134 12.2673 reflect

74 135 12.2673 reflect

75 137 12.2673 contract inside

76 139 12.2473 expand

77 140 12.2473 reflect

78 141 12.2473 reflect

79 143 12.2236 expand

80 145 12.2236 contract outside

81 146 12.2236 reflect

82 147 12.2236 reflect

83 149 12.2062 expand

84 150 12.2062 reflect

85 151 12.2062 reflect

86 152 12.2062 reflect

87 153 12.2062 reflect

88 155 12.2062 contract inside

89 157 12.2029 reflect

90 159 12.1763 expand

91 161 12.1763 contract inside

92 162 12.1763 reflect

93 163 12.1763 reflect

94 164 12.1763 reflect

95 165 12.1763 reflect

96 166 12.1763 reflect

97 167 12.1763 reflect

98 169 12.1763 contract outside

99 171 12.175 reflect

100 173 12.1621 reflect

101 175 12.1621 contract outside

102 177 12.1569 expand

103 178 12.1569 reflect

104 179 12.1569 reflect

105 181 12.1569 contract inside

106 183 12.1265 expand

107 184 12.1265 reflect

108 185 12.1265 reflect

109 186 12.1265 reflect

110 187 12.1265 reflect

111 189 12.1265 contract inside

112 190 12.1265 reflect

113 192 12.1231 reflect

114 194 12.1164 reflect

115 195 12.1164 reflect

116 197 12.1164 contract inside

117 198 12.1164 reflect

118 200 12.1151 reflect

119 201 12.1151 reflect

120 203 12.1066 expand

121 205 12.0903 expand

122 206 12.0903 reflect

123 207 12.0903 reflect

124 209 12.0712 expand

125 210 12.0712 reflect

126 211 12.0712 reflect

127 213 12.0604 reflect

128 214 12.0604 reflect

129 215 12.0604 reflect

130 217 12.0532 reflect

131 219 12.0532 contract inside

132 221 12.051 reflect

133 222 12.051 reflect

134 223 12.051 reflect

135 225 12.033 reflect

136 227 12.033 contract inside

137 228 12.033 reflect

138 230 12.033 contract inside

139 231 12.033 reflect

140 233 12.033 contract inside

141 234 12.033 reflect

142 235 12.033 reflect

143 237 12.033 contract inside

144 238 12.033 reflect

145 240 12.033 contract inside

146 242 12.033 contract inside

147 244 12.0276 expand

148 246 12.0276 contract inside

149 248 12.0264 reflect

150 250 12.0264 contract inside

151 252 12.0249 reflect

152 254 12.0249 contract inside

153 256 12.0249 contract inside

154 258 12.0249 contract inside

155 259 12.0249 reflect

156 261 12.0249 contract inside

157 263 12.0226 reflect

158 264 12.0226 reflect

159 266 12.0226 contract inside

160 268 12.0204 expand

161 270 12.0204 contract inside

162 272 12.0204 contract inside

163 274 12.0204 contract inside

164 275 12.0204 reflect

165 276 12.0204 reflect

166 278 12.0204 contract inside

167 280 12.0204 contract inside

168 281 12.0204 reflect

169 283 12.0204 contract inside

170 285 12.0204 contract inside

171 287 12.0204 contract inside

172 289 12.0204 contract inside

173 291 12.0204 contract inside

174 293 12.0204 contract outside

175 295 12.0196 reflect

176 297 12.0196 contract inside

177 299 12.0196 contract inside

178 300 12.0196 reflect

179 302 12.0196 contract inside

180 304 12.0196 contract inside

181 306 12.0196 contract inside

182 307 12.0196 reflect

183 308 12.0196 reflect

184 310 12.0196 contract inside

185 312 12.0196 contract inside

186 313 12.0196 reflect

187 315 12.0196 contract inside

188 317 12.0196 contract inside

189 318 12.0196 reflect

190 320 12.0196 contract inside

191 322 12.0196 contract inside

192 324 12.0196 contract inside

193 325 12.0196 reflect

194 326 12.0196 reflect

195 327 12.0196 reflect

196 329 12.0195 reflect

197 330 12.0195 reflect

198 332 12.0194 reflect

199 334 12.0194 contract inside

200 336 12.0194 contract inside

201 338 12.0194 contract inside

202 340 12.0194 contract inside

203 342 12.0194 contract inside

204 344 12.0194 contract inside

205 346 12.0194 contract inside

206 348 12.0193 expand

207 350 12.0191 reflect

208 352 12.0191 reflect

209 354 12.0191 contract inside

210 355 12.0191 reflect

211 357 12.0191 reflect

212 358 12.0191 reflect

213 360 12.019 reflect

214 361 12.019 reflect

215 363 12.019 contract inside

216 365 12.019 contract inside

217 366 12.019 reflect

218 368 12.0187 expand

219 369 12.0187 reflect

220 371 12.0185 expand

221 372 12.0185 reflect

222 373 12.0185 reflect

223 374 12.0185 reflect

224 376 12.0182 expand

225 378 12.0178 expand

226 379 12.0178 reflect

227 381 12.0174 expand

228 382 12.0174 reflect

229 384 12.0165 expand

230 385 12.0165 reflect

231 386 12.0165 reflect

232 388 12.0152 expand

233 389 12.0152 reflect

234 391 12.0139 expand

235 392 12.0139 reflect

236 394 12.0125 expand

237 395 12.0125 reflect

238 397 12.0092 expand

239 398 12.0092 reflect

240 400 12.0064 expand

241 401 12.0064 reflect

242 403 12.0026 expand

243 404 12.0026 reflect

244 406 11.9969 expand

245 407 11.9969 reflect

246 409 11.9917 expand

247 410 11.9917 reflect

248 412 11.9861 expand

249 413 11.9861 reflect

250 415 11.9852 reflect

251 417 11.9843 reflect

252 419 11.9828 reflect

253 420 11.9828 reflect

254 422 11.9828 contract inside

255 423 11.9828 reflect

256 425 11.9828 contract inside

257 427 11.9828 contract inside

258 429 11.9828 contract inside

259 430 11.9828 reflect

260 432 11.9828 contract inside

261 434 11.9828 contract inside

262 436 11.9828 contract outside

263 438 11.9828 contract inside

264 439 11.9828 reflect

265 441 11.9828 contract inside

266 443 11.9828 contract inside

267 445 11.9828 contract inside

268 447 11.9828 contract inside

269 449 11.9828 contract inside

270 451 11.9828 contract inside

271 453 11.9828 contract inside

272 455 11.9828 contract inside

273 457 11.9826 expand

274 458 11.9826 reflect

275 459 11.9826 reflect

276 461 11.9826 contract inside

277 462 11.9826 reflect

278 464 11.9826 contract inside

279 466 11.9822 expand

280 467 11.9822 reflect

281 468 11.9822 reflect

282 470 11.9817 expand

283 471 11.9817 reflect

284 472 11.9817 reflect

285 474 11.9815 expand

286 475 11.9815 reflect

287 477 11.9801 expand

288 478 11.9801 reflect

289 480 11.9791 expand

290 481 11.9791 reflect

291 482 11.9791 reflect

292 484 11.9772 expand

293 485 11.9772 reflect

294 487 11.9753 expand

295 488 11.9753 reflect

296 490 11.9732 expand

297 491 11.9732 reflect

298 493 11.9719 reflect

299 495 11.9717 reflect

300 497 11.9702 reflect

301 498 11.9702 reflect

302 500 11.9702 contract inside

303 502 11.9696 reflect

304 503 11.9696 reflect

305 505 11.9696 reflect

306 507 11.9696 contract inside

307 508 11.9696 reflect

308 510 11.9696 contract inside

309 512 11.9696 contract inside

310 514 11.9696 contract inside

311 516 11.9696 contract inside

312 518 11.9696 contract inside

313 520 11.9696 contract inside

314 522 11.9696 contract inside

315 524 11.9696 contract inside

316 526 11.9692 contract inside

317 528 11.9692 contract inside

318 529 11.9692 reflect

319 531 11.9692 contract inside

320 532 11.9692 reflect

321 534 11.9692 contract inside

322 536 11.9692 contract outside

323 538 11.9692 contract inside

324 539 11.9692 reflect

325 541 11.9692 contract inside

326 543 11.9692 contract inside

327 544 11.9692 reflect

328 546 11.9688 expand

329 547 11.9688 reflect

330 548 11.9688 reflect

331 549 11.9688 reflect

332 551 11.9685 expand

333 553 11.9684 reflect

334 555 11.9683 reflect

335 556 11.9683 reflect

336 557 11.9683 reflect

337 558 11.9683 reflect

338 559 11.9683 reflect

339 560 11.9683 reflect

340 561 11.9683 reflect

341 562 11.9683 reflect

342 564 11.9683 contract inside

343 565 11.9683 reflect

344 566 11.9683 reflect

345 568 11.9683 contract inside

346 570 11.9681 contract inside

347 571 11.9681 reflect

348 572 11.9681 reflect

349 573 11.9681 reflect

350 574 11.9681 reflect

351 576 11.9681 contract inside

352 577 11.9681 reflect

353 579 11.9681 reflect

354 580 11.9681 reflect

355 582 11.9681 contract inside

356 584 11.9681 contract inside

357 586 11.9681 contract inside

358 588 11.9681 reflect

359 590 11.9681 contract inside

360 592 11.9681 reflect

361 594 11.9681 contract inside

362 596 11.9681 contract inside

363 598 11.9681 contract inside

364 599 11.9681 reflect

365 601 11.9681 contract inside

366 603 11.9681 reflect

367 605 11.9681 contract inside

368 607 11.9681 reflect

369 608 11.9681 reflect

370 610 11.968 reflect

371 612 11.968 contract inside

372 613 11.968 reflect

373 614 11.968 reflect

374 616 11.968 expand

375 617 11.968 reflect

376 618 11.968 reflect

377 620 11.968 reflect

378 621 11.968 reflect

379 622 11.968 reflect

380 624 11.968 expand

381 625 11.968 reflect

382 626 11.968 reflect

383 628 11.9679 expand

384 629 11.9679 reflect

385 631 11.9679 reflect

386 633 11.9679 expand

387 634 11.9679 reflect

388 636 11.9678 expand

389 638 11.9678 expand

390 640 11.9677 expand

391 641 11.9677 reflect

392 643 11.9674 expand

393 644 11.9674 reflect

394 645 11.9674 reflect

395 647 11.9671 expand

396 648 11.9671 reflect

397 649 11.9671 reflect

398 650 11.9671 reflect

399 652 11.9665 expand

400 653 11.9665 reflect

401 654 11.9665 reflect

402 655 11.9665 reflect

403 657 11.9659 expand

404 658 11.9659 reflect

405 660 11.9651 expand

406 661 11.9651 reflect

407 662 11.9651 reflect

408 664 11.9643 expand

409 665 11.9643 reflect

410 667 11.9635 expand

411 668 11.9635 reflect

412 670 11.9629 expand

413 671 11.9629 reflect

414 673 11.9622 expand

415 674 11.9622 reflect

416 675 11.9622 reflect

417 676 11.9622 reflect

418 678 11.9622 contract outside

419 680 11.9622 contract outside

420 682 11.9622 contract inside

421 683 11.9622 reflect

422 684 11.9622 reflect

423 686 11.9622 contract inside

424 687 11.9622 reflect

425 689 11.9621 expand

426 691 11.9619 expand

427 693 11.9617 expand

428 694 11.9617 reflect

429 696 11.9614 expand

430 698 11.9609 expand

431 699 11.9609 reflect

432 701 11.9605 expand

433 703 11.9598 expand

434 705 11.9587 expand

435 706 11.9587 reflect

436 708 11.9586 reflect

437 710 11.9567 expand

438 712 11.9566 reflect

439 714 11.9549 expand

440 715 11.9549 reflect

441 717 11.9549 contract inside

442 719 11.9521 expand

443 720 11.9521 reflect

444 721 11.9521 reflect

445 723 11.9482 expand

446 724 11.9482 reflect

447 725 11.9482 reflect

448 727 11.9459 expand

449 729 11.9456 reflect

450 731 11.941 expand

451 732 11.941 reflect

452 734 11.9383 expand

453 735 11.9383 reflect

454 737 11.9247 expand

455 738 11.9247 reflect

456 739 11.9247 reflect

457 740 11.9247 reflect

458 742 11.9184 expand

459 743 11.9184 reflect

460 745 11.9069 expand

461 746 11.9069 reflect

462 747 11.9069 reflect

463 749 11.896 reflect

464 751 11.896 contract inside

465 752 11.896 reflect

466 753 11.896 reflect

467 755 11.896 contract inside

468 757 11.896 contract inside

469 759 11.8946 reflect

470 761 11.8946 contract inside

471 763 11.8916 reflect

472 765 11.8916 contract inside

473 767 11.8916 contract inside

474 769 11.8909 reflect

475 771 11.8909 contract inside

476 773 11.89 reflect

477 774 11.89 reflect

478 776 11.888 reflect

479 777 11.888 reflect

480 779 11.888 contract inside

481 781 11.888 contract inside

482 783 11.887 reflect

483 785 11.887 contract inside

484 786 11.887 reflect

485 788 11.887 contract inside

486 790 11.8855 reflect

487 792 11.8855 contract inside

488 793 11.8855 reflect

489 795 11.8855 contract inside

490 797 11.8855 contract outside

491 799 11.8855 contract inside

492 800 11.8855 reflect

493 802 11.885 reflect

494 804 11.885 contract inside

495 805 11.885 reflect

496 807 11.885 contract inside

497 809 11.885 contract inside

498 811 11.8846 reflect

499 813 11.8846 contract inside

500 815 11.8846 contract inside

501 816 11.8846 reflect

502 818 11.8846 contract inside

503 820 11.8846 contract inside

504 822 11.8846 contract inside

505 824 11.8846 reflect

506 826 11.8843 reflect

507 827 11.8843 reflect

508 829 11.8843 contract inside

509 831 11.8843 contract inside

510 833 11.8843 contract inside

511 834 11.8843 reflect

512 836 11.8843 contract inside

513 838 11.8843 contract inside

514 840 11.8842 contract inside

515 841 11.8842 reflect

516 843 11.8842 contract inside

517 845 11.8842 contract inside

518 847 11.8842 contract outside

519 849 11.8842 reflect

520 850 11.8842 reflect

521 851 11.8842 reflect

522 853 11.8842 contract inside

523 854 11.8842 reflect

524 856 11.8841 contract inside

525 858 11.8841 contract inside

526 860 11.8841 contract inside

527 862 11.8841 contract inside

528 864 11.8841 contract inside

529 866 11.8841 reflect

530 868 11.8841 contract inside

531 870 11.8841 expand

532 872 11.8841 contract inside

533 874 11.8841 contract inside

534 876 11.8841 contract inside

535 877 11.8841 reflect

536 879 11.8841 contract inside

537 880 11.8841 reflect

538 882 11.8841 contract inside

539 883 11.8841 reflect

540 885 11.8841 contract inside

541 886 11.8841 reflect

542 887 11.8841 reflect

543 888 11.8841 reflect

544 890 11.8841 contract inside

545 892 11.8841 contract inside

546 893 11.8841 reflect

547 895 11.8841 contract inside

548 897 11.884 reflect

549 898 11.884 reflect

550 899 11.884 reflect

551 901 11.884 contract inside

552 902 11.884 reflect

553 903 11.884 reflect

554 905 11.884 contract inside

555 907 11.884 contract inside

556 909 11.884 expand

557 911 11.884 contract inside

558 913 11.884 contract inside

559 915 11.884 contract inside

560 917 11.884 contract inside

561 918 11.884 reflect

562 920 11.884 contract inside

563 922 11.884 contract inside

564 924 11.884 contract inside

565 925 11.884 reflect

566 927 11.884 contract inside

567 929 11.884 contract outside

568 930 11.884 reflect

569 932 11.884 contract inside

570 934 11.884 reflect

571 935 11.884 reflect

572 937 11.884 contract inside

573 939 11.884 contract inside

574 940 11.884 reflect

575 942 11.884 contract inside

576 943 11.884 reflect

577 945 11.884 contract inside

578 947 11.884 contract inside

579 948 11.884 reflect

580 950 11.884 contract inside

581 952 11.884 contract inside

582 954 11.884 reflect

583 956 11.884 contract inside

584 957 11.884 reflect

585 959 11.884 contract inside

586 961 11.884 contract inside

587 963 11.884 reflect

588 965 11.884 contract inside

589 967 11.884 contract inside

590 968 11.884 reflect

591 969 11.884 reflect

592 971 11.884 reflect

593 972 11.884 reflect

594 973 11.884 reflect

595 974 11.884 reflect

596 976 11.884 contract inside

597 977 11.884 reflect

598 979 11.884 contract outside

599 981 11.884 contract inside

600 983 11.884 expand

601 985 11.884 expand

602 987 11.884 contract outside

603 988 11.884 reflect

604 990 11.884 expand

605 991 11.884 reflect

606 992 11.884 reflect

607 993 11.884 reflect

608 995 11.884 expand

609 996 11.884 reflect

610 997 11.884 reflect

611 999 11.884 expand

612 1000 11.884 reflect

613 1002 11.884 expand

614 1003 11.884 reflect

615 1004 11.884 reflect

616 1006 11.884 expand

617 1007 11.884 reflect

618 1009 11.884 expand

619 1010 11.884 reflect

620 1011 11.884 reflect

621 1013 11.8839 expand

622 1014 11.8839 reflect

623 1016 11.8839 expand

624 1017 11.8839 reflect

625 1019 11.8839 expand

626 1020 11.8839 reflect

627 1022 11.8839 expand

628 1023 11.8839 reflect

629 1024 11.8839 reflect

630 1026 11.8838 expand

631 1027 11.8838 reflect

632 1029 11.8837 expand

633 1031 11.8837 expand

634 1032 11.8837 reflect

635 1033 11.8837 reflect

636 1035 11.8835 expand

637 1036 11.8835 reflect

638 1038 11.8833 expand

639 1039 11.8833 reflect

640 1040 11.8833 reflect

641 1042 11.883 expand

642 1043 11.883 reflect

643 1045 11.8827 expand

644 1046 11.8827 reflect

645 1048 11.8823 expand

646 1049 11.8823 reflect

647 1051 11.8815 expand

648 1052 11.8815 reflect

649 1054 11.8808 expand

650 1055 11.8808 reflect

651 1057 11.8798 expand

652 1058 11.8798 reflect

653 1060 11.8785 expand

654 1061 11.8785 reflect

655 1063 11.8772 expand

656 1064 11.8772 reflect

657 1066 11.8758 expand

658 1067 11.8758 reflect

659 1069 11.875 expand

660 1070 11.875 reflect

661 1071 11.875 reflect

662 1072 11.875 reflect

663 1073 11.875 reflect

664 1075 11.875 contract inside

665 1077 11.875 contract inside

666 1079 11.875 contract outside

667 1081 11.875 contract inside

668 1082 11.875 reflect

669 1084 11.875 contract inside

670 1086 11.875 contract inside

671 1087 11.875 reflect

672 1089 11.875 contract inside

673 1091 11.875 contract inside

674 1093 11.875 contract inside

675 1094 11.875 reflect

676 1096 11.875 contract inside

677 1097 11.875 reflect

678 1099 11.875 contract inside

679 1100 11.875 reflect

680 1101 11.875 reflect

681 1103 11.875 contract inside

682 1104 11.875 reflect

683 1106 11.875 expand

684 1108 11.875 contract inside

685 1109 11.875 reflect

686 1110 11.875 reflect

687 1111 11.875 reflect

688 1113 11.875 expand

689 1115 11.875 contract inside

690 1116 11.875 reflect

691 1118 11.875 expand

692 1119 11.875 reflect

693 1120 11.875 reflect

694 1121 11.875 reflect

695 1123 11.875 expand

696 1125 11.875 expand

697 1126 11.875 reflect

698 1128 11.8749 expand

699 1129 11.8749 reflect

700 1130 11.8749 reflect

701 1131 11.8749 reflect

702 1133 11.8748 expand

703 1134 11.8748 reflect

704 1136 11.8748 expand

705 1137 11.8748 reflect

706 1138 11.8748 reflect

707 1140 11.8747 expand

708 1142 11.8746 expand

709 1143 11.8746 reflect

710 1144 11.8746 reflect

711 1146 11.8744 expand

712 1147 11.8744 reflect

713 1149 11.8742 expand

714 1150 11.8742 reflect

715 1152 11.8739 expand

716 1153 11.8739 reflect

717 1155 11.8737 expand

718 1157 11.8734 expand

719 1159 11.8728 expand

720 1160 11.8728 reflect

721 1161 11.8728 reflect

722 1163 11.872 expand

723 1165 11.872 contract inside

724 1166 11.872 reflect

725 1167 11.872 reflect

726 1168 11.872 reflect

727 1169 11.872 reflect

728 1170 11.872 reflect

729 1172 11.8715 reflect

730 1174 11.8715 contract inside

731 1176 11.8715 contract inside

732 1178 11.8715 contract inside

733 1180 11.8715 contract inside

734 1182 11.8715 contract inside

735 1183 11.8715 reflect

736 1185 11.8715 reflect

737 1187 11.8715 contract inside

738 1188 11.8715 reflect

739 1190 11.8709 expand

740 1191 11.8709 reflect

741 1192 11.8709 reflect

742 1194 11.8705 expand

743 1195 11.8705 reflect

744 1197 11.8702 expand

745 1199 11.8696 expand

746 1201 11.8686 expand

747 1202 11.8686 reflect

748 1203 11.8686 reflect

749 1204 11.8686 reflect

750 1205 11.8686 reflect

751 1207 11.8685 expand

752 1209 11.8682 expand

753 1211 11.8677 expand

754 1213 11.8657 expand

755 1214 11.8657 reflect

756 1215 11.8657 reflect

757 1217 11.8657 contract inside

758 1218 11.8657 reflect

759 1220 11.8643 expand

760 1221 11.8643 reflect

761 1223 11.8615 expand

762 1224 11.8615 reflect

763 1226 11.8613 reflect

764 1228 11.8606 reflect

765 1230 11.858 expand

766 1231 11.858 reflect

767 1233 11.858 contract outside

768 1235 11.858 contract inside

769 1237 11.857 expand

770 1239 11.8556 expand

771 1240 11.8556 reflect

772 1242 11.8541 reflect

773 1243 11.8541 reflect

774 1245 11.8533 reflect

775 1247 11.8533 contract outside

776 1249 11.8517 expand

777 1251 11.8517 contract inside

778 1253 11.851 reflect

779 1255 11.8491 expand

780 1256 11.8491 reflect

781 1258 11.846 expand

782 1259 11.846 reflect

783 1260 11.846 reflect

784 1261 11.846 reflect

785 1262 11.846 reflect

786 1263 11.846 reflect

787 1265 11.846 contract inside

788 1267 11.8459 contract inside

789 1269 11.8444 expand

790 1271 11.8444 contract inside

791 1273 11.8444 contract inside

792 1274 11.8444 reflect

793 1276 11.8444 contract outside

794 1278 11.8444 contract inside

795 1280 11.8431 reflect

796 1281 11.8431 reflect

797 1283 11.8419 expand

798 1284 11.8419 reflect

799 1286 11.8419 contract inside

800 1288 11.8419 contract inside

801 1289 11.8419 reflect

802 1291 11.8419 contract inside

803 1292 11.8419 reflect

804 1294 11.8419 contract inside

805 1296 11.8419 contract inside

806 1297 11.8419 reflect

807 1299 11.8419 contract inside

808 1301 11.8419 contract inside

809 1303 11.8419 contract inside

810 1304 11.8419 reflect

811 1305 11.8419 reflect

812 1307 11.8414 reflect

813 1308 11.8414 reflect

814 1310 11.8414 contract inside

815 1312 11.8405 expand

816 1313 11.8405 reflect

817 1315 11.8402 expand

818 1317 11.8402 contract inside

819 1318 11.8402 reflect

820 1320 11.8402 contract inside

821 1322 11.8402 contract inside

822 1324 11.8402 contract inside

823 1326 11.8402 contract inside

824 1327 11.8402 reflect

825 1329 11.8402 contract inside

826 1331 11.8402 contract inside

827 1332 11.8402 reflect

828 1334 11.8402 contract inside

829 1336 11.8401 reflect

830 1338 11.8401 contract inside

831 1339 11.8401 reflect

832 1341 11.8401 reflect

833 1343 11.8401 contract outside

834 1345 11.8401 contract outside

835 1347 11.8401 contract inside

836 1349 11.8401 contract inside

837 1351 11.84 reflect

838 1352 11.84 reflect

839 1354 11.84 contract inside

840 1356 11.84 reflect

841 1358 11.84 contract outside

842 1360 11.84 reflect

843 1362 11.84 contract inside

844 1364 11.84 contract inside

845 1366 11.8399 expand

846 1367 11.8399 reflect

847 1369 11.8399 contract outside

848 1370 11.8399 reflect

849 1372 11.8399 contract inside

850 1373 11.8399 reflect

851 1375 11.8399 contract outside

852 1376 11.8399 reflect

853 1377 11.8399 reflect

854 1379 11.8399 expand

855 1381 11.8399 contract inside

856 1382 11.8399 reflect

857 1383 11.8399 reflect

858 1384 11.8399 reflect

859 1386 11.8399 contract inside

860 1387 11.8399 reflect

861 1389 11.8399 contract outside

862 1391 11.8399 contract inside

863 1392 11.8399 reflect

864 1394 11.8399 reflect

865 1396 11.8399 reflect

866 1397 11.8399 reflect

867 1399 11.8398 reflect

868 1401 11.8398 contract inside

869 1402 11.8398 reflect

870 1404 11.8398 contract inside

871 1405 11.8398 reflect

872 1407 11.8398 contract inside

873 1409 11.8398 contract inside

874 1411 11.8398 contract inside

875 1413 11.8398 contract inside

876 1415 11.8398 reflect

877 1417 11.8398 contract inside

878 1419 11.8398 contract inside

879 1421 11.8398 contract inside

880 1423 11.8398 reflect

881 1425 11.8398 contract inside

882 1427 11.8398 contract inside

883 1428 11.8398 reflect

884 1429 11.8398 reflect

885 1431 11.8398 expand

886 1432 11.8398 reflect

887 1433 11.8398 reflect

888 1434 11.8398 reflect

889 1436 11.8398 reflect

890 1437 11.8398 reflect

891 1439 11.8398 expand

892 1441 11.8398 contract inside

893 1443 11.8398 contract outside

894 1444 11.8398 reflect

895 1445 11.8398 reflect

896 1446 11.8398 reflect

897 1447 11.8398 reflect

898 1448 11.8398 reflect

899 1450 11.8398 contract inside

900 1451 11.8398 reflect

901 1453 11.8398 contract outside

902 1455 11.8398 expand

903 1456 11.8398 reflect

904 1458 11.8398 contract outside

905 1460 11.8398 contract inside

906 1461 11.8398 reflect

907 1462 11.8398 reflect

908 1464 11.8398 reflect

909 1465 11.8398 reflect

910 1467 11.8398 expand

911 1469 11.8398 contract inside

912 1470 11.8398 reflect

913 1472 11.8398 expand

914 1473 11.8398 reflect

915 1474 11.8398 reflect

916 1476 11.8398 contract inside

917 1477 11.8398 reflect

918 1478 11.8398 reflect

919 1479 11.8398 reflect

920 1481 11.8398 expand

921 1483 11.8398 contract inside

922 1484 11.8398 reflect

923 1486 11.8398 contract inside

924 1488 11.8398 contract inside

925 1490 11.8398 contract inside

926 1491 11.8398 reflect

927 1493 11.8397 reflect

928 1494 11.8397 reflect

929 1496 11.8397 contract inside

930 1498 11.8397 contract inside

931 1500 11.8397 contract inside

932 1502 11.8397 contract inside

933 1504 11.8397 contract inside

934 1506 11.8397 contract inside

935 1508 11.8397 contract inside

936 1510 11.8397 contract inside

937 1512 11.8397 contract inside

938 1514 11.8397 contract outside

939 1515 11.8397 reflect

940 1517 11.8397 contract inside

941 1519 11.8397 contract inside

942 1521 11.8397 contract outside

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945 1526 11.8397 reflect

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947 1529 11.8397 contract inside

948 1531 11.8397 expand

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950 1534 11.8397 reflect

951 1536 11.8397 contract inside

952 1537 11.8397 reflect

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963 1553 11.8397 contract inside

964 1555 11.8397 expand

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968 1560 11.8397 reflect

969 1562 11.8397 contract inside

970 1563 11.8397 reflect

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972 1566 11.8397 reflect

973 1568 11.8397 expand

974 1570 11.8397 contract inside

975 1572 11.8397 reflect

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977 1575 11.8397 contract inside

978 1577 11.8397 expand

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987 1588 11.8397 reflect

988 1590 11.8397 contract inside

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993 1599 11.8397 contract inside

994 1601 11.8397 contract inside

995 1602 11.8397 reflect

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998 1605 11.8397 reflect

999 1607 11.8397 reflect

1000 1609 11.8397 contract inside

1001 1610 11.8397 reflect

1002 1612 11.8397 contract inside

1003 1614 11.8397 expand

1004 1615 11.8397 reflect

1005 1617 11.8397 contract inside

1006 1619 11.8397 expand

1007 1620 11.8397 reflect

1008 1622 11.8397 expand

1009 1624 11.8397 contract inside

1010 1625 11.8397 reflect

1011 1626 11.8397 reflect

1012 1627 11.8397 reflect

1013 1629 11.8397 expand

1014 1630 11.8397 reflect

1015 1632 11.8397 contract inside

1016 1634 11.8397 contract outside

1017 1635 11.8397 reflect

1018 1637 11.8397 contract outside

1019 1638 11.8397 reflect

1020 1640 11.8397 expand

1021 1641 11.8397 reflect

1022 1643 11.8397 contract inside

1023 1645 11.8397 contract inside

1024 1646 11.8397 reflect

1025 1648 11.8397 contract outside

1026 1650 11.8397 contract inside

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1031 1656 11.8397 reflect

1032 1658 11.8397 contract inside

1033 1660 11.8397 contract inside

1034 1662 11.8397 contract inside

1035 1664 11.8397 contract inside

1036 1665 11.8397 reflect

1037 1666 11.8397 reflect

1038 1668 11.8397 contract inside

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1100 1769 11.8397 reflect

1101 1771 11.8397 contract inside

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1103 1775 11.8397 contract outside

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1106 1778 11.8397 reflect

1107 1779 11.8397 reflect

1108 1781 11.8397 expand

1109 1783 11.8397 contract inside

1110 1784 11.8397 reflect

1111 1785 11.8397 reflect

1112 1787 11.8397 contract inside

1113 1789 11.8397 contract inside

1114 1790 11.8397 reflect

1115 1792 11.8397 expand

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1170 1874 11.8397 reflect

1171 1876 11.8397 contract outside

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1177 1886 11.8397 reflect

1178 1888 11.8397 contract inside

1179 1890 11.8397 expand

1180 1892 11.8397 expand

1181 1893 11.8397 reflect

1182 1895 11.8397 contract inside

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1184 1898 11.8397 expand

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1242 1983 11.8392 reflect

1243 1985 11.8391 expand

1244 1986 11.8391 reflect

1245 1987 11.8391 reflect

1246 1988 11.8391 reflect

1247 1990 11.8391 contract outside

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1249 1993 11.8389 reflect

1250 1994 11.8389 reflect

1251 1995 11.8389 reflect

1252 1997 11.8386 expand

1253 1998 11.8386 reflect

1254 2000 11.8385 expand

1255 2002 11.8382 expand

1256 2003 11.8382 reflect

1257 2005 11.8378 expand

1258 2006 11.8378 reflect

1259 2007 11.8378 reflect

1260 2009 11.8371 expand

1261 2010 11.8371 reflect

1262 2012 11.8361 expand

1263 2013 11.8361 reflect

1264 2014 11.8361 reflect

1265 2016 11.835 expand

1266 2017 11.835 reflect

1267 2018 11.835 reflect

1268 2020 11.833 expand

1269 2021 11.833 reflect

1270 2022 11.833 reflect

1271 2024 11.8314 expand

1272 2025 11.8314 reflect

1273 2027 11.8284 expand

1274 2028 11.8284 reflect

1275 2029 11.8284 reflect

1276 2031 11.825 expand

1277 2032 11.825 reflect

1278 2033 11.825 reflect

1279 2035 11.8179 expand

1280 2036 11.8179 reflect

1281 2037 11.8179 reflect

1282 2039 11.8179 contract inside

1283 2040 11.8179 reflect

1284 2042 11.8138 expand

1285 2044 11.8136 reflect

1286 2046 11.8099 reflect

1287 2047 11.8099 reflect

1288 2049 11.8058 expand

1289 2051 11.7974 expand

1290 2052 11.7974 reflect

1291 2054 11.7974 contract inside

1292 2055 11.7974 reflect

1293 2056 11.7974 reflect

1294 2057 11.7974 reflect

1295 2059 11.7822 expand

1296 2060 11.7822 reflect

1297 2061 11.7822 reflect

1298 2062 11.7822 reflect

1299 2064 11.7741 expand

1300 2066 11.7741 contract inside

1301 2068 11.7726 expand

1302 2070 11.7677 reflect

1303 2071 11.7677 reflect

1304 2072 11.7677 reflect

1305 2073 11.7677 reflect

1306 2075 11.7677 contract inside

1307 2077 11.7677 contract inside

1308 2078 11.7677 reflect

1309 2079 11.7677 reflect

1310 2080 11.7677 reflect

1311 2082 11.7669 reflect

1312 2084 11.7669 contract inside

1313 2085 11.7669 reflect

1314 2087 11.7669 contract inside

1315 2089 11.7669 contract inside

1316 2091 11.7656 reflect

1317 2093 11.7656 contract inside

1318 2094 11.7656 reflect

1319 2096 11.7656 contract inside

1320 2098 11.7656 contract inside

1321 2099 11.7656 reflect

1322 2101 11.7656 contract inside

1323 2103 11.7656 contract inside

1324 2105 11.7656 contract inside

1325 2107 11.7656 contract inside

1326 2108 11.7656 reflect

1327 2110 11.7656 contract inside

1328 2112 11.7656 contract inside

1329 2113 11.7656 reflect

1330 2114 11.7656 reflect

1331 2115 11.7656 reflect

1332 2117 11.7654 reflect

1333 2119 11.7654 contract inside

1334 2121 11.7654 contract inside

1335 2123 11.7654 contract inside

1336 2125 11.7654 contract inside

1337 2127 11.7654 contract inside

1338 2128 11.7654 reflect

1339 2129 11.7654 reflect

1340 2131 11.7654 contract inside

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1343 2136 11.7654 contract inside

1344 2138 11.7654 reflect

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1347 2143 11.7654 reflect

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1349 2146 11.7654 contract inside

1350 2148 11.7654 contract inside

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1354 2156 11.7653 reflect

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1371 2185 11.7653 contract inside

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1375 2190 11.7653 contract inside

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1381 2200 11.7653 reflect

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1384 2205 11.7653 reflect

1385 2207 11.7653 contract inside

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1387 2209 11.7653 reflect

1388 2211 11.7653 contract inside

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1390 2215 11.7653 contract inside

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1393 2221 11.7653 contract inside

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1396 2226 11.7653 reflect

1397 2228 11.7653 contract inside

1398 2230 11.7653 contract inside

1399 2232 11.7653 contract inside

1400 2234 11.7653 contract inside

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1407 2248 11.7653 contract inside

1408 2250 11.7653 contract inside

1409 2251 11.7653 reflect

1410 2252 11.7653 reflect

1411 2253 11.7653 reflect

1412 2254 11.7653 reflect

1413 2256 11.7653 contract inside

1414 2258 11.7653 contract inside

1415 2260 11.7653 contract inside

1416 2262 11.7653 contract inside

1417 2264 11.7653 contract inside

1418 2266 11.7653 contract inside

1419 2268 11.7653 contract inside

1420 2270 11.7653 contract inside

1421 2272 11.7653 contract inside

1422 2274 11.7653 reflect

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1424 2278 11.7653 contract inside

1425 2280 11.7653 contract inside

1426 2282 11.7653 contract outside

1427 2284 11.7653 contract inside

1428 2286 11.7653 contract inside

1429 2287 11.7653 reflect

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1434 2295 11.7653 contract inside

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1436 2299 11.7653 reflect

1437 2301 11.7653 contract inside

1438 2303 11.7653 contract inside

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1447 2320 11.7653 reflect

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1450 2325 11.7653 contract inside

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1466 2353 11.7653 reflect

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1470 2361 11.7653 contract inside

1471 2363 11.7653 contract inside

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1482 2380 11.7653 reflect

1483 2382 11.7653 reflect

1484 2384 11.7653 contract inside

1485 2386 11.7653 contract inside

1486 2388 11.7653 contract inside

1487 2390 11.7653 contract inside

1488 2392 11.7653 contract inside

1489 2393 11.7653 reflect

1490 2395 11.7653 contract inside

1491 2397 11.7653 contract inside

1492 2398 11.7653 reflect

1493 2400 11.7653 contract inside

Exiting: Maximum number of function evaluations has been exceeded

- increase MaxFunEvals option.

Current function value: 11.765307

FMINSEARCH terminated.

**x =[172.3150,1.1515,0.0003,1.1034,4.4913,-1.5708]; % fval =11.7653;**

exitflag =-1;

output =

problemtype: 'unconstrained'

rngstate: [1x1 struct]

generations: 20

funccount: 4500

message: [1x223 char]

population =

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.0323 0.7629 0.6617 4.6493 -1.4926

170.5392 1.8628 -0.9313 0.5582 6.2453 -2.2962

170.5737 1.1581 0.0001 1.0927 5.0038 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

169.9386 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.3510 1.0927 5.1190 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -2.2353

170.1516 1.2145 0.7701 1.0927 4.7195 -1.4926

169.9386 0.6699 0.0001 1.0927 4.0147 -1.4926

170.2260 1.1581 0.0001 1.0927 4.7195 -0.9597

169.1296 2.0301 0.7542 1.0927 5.5073 -0.9041

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.8016 0.0001 1.0927 4.4800 -1.4926

169.8547 1.8402 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

171.6544 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.4166 1.2345 -0.2812 1.0927 4.7195 -2.2632

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 5.2566 -1.4926

170.2694 1.1581 0.0001 1.0927 5.5044 -1.4926

169.0168 0.1647 -0.9547 -0.0918 4.7195 -1.4926

170.2694 1.3800 0.0001 1.1656 3.5000 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -2.1033

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

169.9696 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

169.6282 0.9431 0.0589 1.0927 4.1842 -1.4926

169.4246 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 0.3675 0.0001 1.0927 4.9080 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.7701 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.9297 0.0001 -0.1780 3.7676 -0.0538

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.6361 4.7003 -1.4926

170.4242 1.1581 0.0001 1.0927 4.7195 -1.4926

169.9553 1.1581 -0.2625 1.0927 3.7958 -2.3000

170.2694 1.0294 0.0001 0.4937 4.5324 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.6357 1.1581 -0.6663 1.0927 4.4103 -0.7176

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

171.2261 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

169.7290 2.5607 0.0001 1.0927 3.8535 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 2.2873 0.0001 1.0927 4.7195 -1.6144

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

169.1605 1.1581 0.0001 2.2011 6.2630 -1.4926

170.2694 1.1581 0.0001 1.4560 4.7195 -1.4926

170.2694 1.3006 2.4047 0.9969 4.7195 -1.4926

172.4039 1.1581 0.0001 1.1656 3.8206 -1.4926

170.2694 1.1581 0.0476 0.9834 4.7195 -1.4926

170.2694 1.0764 -1.6842 2.9572 4.4285 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -0.8478

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.8151 1.0927 5.1190 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 3.6616 -1.4926

170.2694 1.1581 0.0001 1.0927 4.7195 -1.4926

170.2694 1.1581 0.0001 1.0927 4.1842 -1.4926

169.7768 1.9182 1.4832 1.0927 4.4764 -1.4718

170.5943 0.3950 0.2082 0.7236 4.2166 -2.6015

170.0911 1.7120 1.0121 1.4211 3.9609 -1.6183

170.8638 1.9074 -0.5817 0.7866 3.8861 -1.8490

169.8239 0.6780 0.3137 1.3930 4.4307 -2.3981

170.3376 0.9994 0.0510 1.9480 4.9032 -1.9903

170.5347 0.4608 -0.5636 1.4253 3.1330 -2.4391

170.2646 2.8079 1.3294 0.2994 3.8833 -2.7396

170.0555 0.8423 -1.1156 -0.2816 4.9278 -1.2224

170.0426 1.5390 0.1901 0.2608 3.9824 -0.7862

170.5443 0.9672 -0.6274 1.2480 4.8669 -2.6039

170.8352 1.1947 -0.2549 0.6634 5.2131 -0.9910

169.9958 0.6024 -0.5152 0.1471 5.3382 -1.0280

170.5533 1.4795 0.3443 0.6526 4.1601 -2.0084

169.1981 1.8180 0.2522 1.5682 4.3145 -1.6420

169.8179 0.9342 -0.1623 1.3995 5.4874 -1.6331

170.1455 1.3431 -0.4036 1.9657 5.3522 -0.9272

169.9911 0.2075 -0.5187 1.3481 4.0276 -0.5311

169.8646 1.2791 -0.1118 1.3290 3.7195 -0.7022

170.2452 2.3264 1.5460 1.7446 5.2738 -0.8253

170.2868 3.0128 0.2263 0.8783 4.1547 -2.3069

scores =

1.0e+004 \*

0.0012

0.0012

0.0488

0.5755

0.0033

0.0012

0.0020

0.0062

0.0012

0.0857

0.0064

0.3220

0.0327

0.3513

0.0012

0.3316

0.3548

0.0012

0.0012

0.0012

0.0012

0.0012

0.0045

0.0012

0.1657

0.0012

0.0012

0.0012

0.0138

0.0248

0.6030

0.0614

0.0012

0.0012

0.0012

0.0729

0.0012

0.0012

0.0019

0.0012

0.0012

0.0639

0.0032

0.3590

0.0012

0.0124

0.0012

0.3261

0.0012

0.0012

0.1372

0.0016

0.1565

0.0670

0.0012

0.2156

0.0012

0.0035

0.0012

0.8896

0.0012

0.6801

0.0012

0.0012

0.1410

0.1039

2.0080 + 0.0000i

0.0146

0.0162

0.7818 + 0.0002i

0.0012

0.0012

0.0460

0.0012

0.0175

0.0012

0.0053

0.0012

0.0034

2.2402 - 1.7961i

0.4943

0.1054 - 0.0047i

0.6194

0.4456

0.1742

0.5881

1.6266 - 0.2025i

0.5530 - 0.0040i

0.1278

0.3517

0.0851

0.5065

0.2216

0.2354

0.1723

0.1857

0.4771

0.0984

4.3017 - 3.6918i

1.4445

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

Caculation finished and the elapsedTime= 41.8525hours

**x =[172.3150,1.1515,0.0003,1.1034,4.4913,-1.5708]; % fval =11.7653;**

**下一行是精确值：**

x =[1.7231496e+002,1.1514878e+0,2.7463158e-004,1.1033925e+0,4.4912664e+0,-1.5707963e+0];

**P\_asterisk =11.7517;L =1.0000;delta =-6.7235e-006; AR =3.7643; Re =158.2495;**

**penaltyfun1 =0.0134;penaltyfun2 =0; penaltyfun5 =0; obj\_function =11.7652;**

**由以下初始值代入计算而得：% 继续遗传50代+2400代局部搜索**

x\_start =[1.7026941e+002,1.1580537e+0,1.0000010e-004,1.0927357e+0,4.7195217e+0,-1.4925868e+0];