

User Input Was möchtest du tun? (t = Trainieren, p = Spielen, b = Beides, d = Löschen): t
Bitte gib die Run-Nummer ein: 1 Wie viele Generationen sollen trainiert werden? 1000

```
In [2]: import Exp2NEAT  
  
Exp2NEAT.train(1000, 1)
```

***** Running generation 0 *****

Population's average fitness: -127.48876 stdev: 24.66100
 Best fitness: -90.29809 - size: (4, 96) - species 1 - id 205
 Average adjusted fitness: 0.719
 Mean genetic distance 1.168, standard deviation 0.212
 Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	0	250	-90.3	0.719	0

Total extinctions: 0
 Generation time: 24.634 sec

***** Running generation 1 *****

Population's average fitness: -119.45624 stdev: 23.67442
 Best fitness: -90.47096 - size: (4, 94) - species 1 - id 411
 Average adjusted fitness: 0.798
 Mean genetic distance 1.230, standard deviation 0.221
 Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	1	250	-90.5	0.798	1

Total extinctions: 0
 Generation time: 10.758 sec (17.696 average)

***** Running generation 2 *****

Population's average fitness: -116.38627 stdev: 20.94856
 Best fitness: -77.61854 - size: (4, 95) - species 1 - id 548
 Average adjusted fitness: 0.633
 Mean genetic distance 1.334, standard deviation 0.193
 Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	2	250	-77.6	0.633	0

Total extinctions: 0
 Generation time: 9.507 sec (14.966 average)

***** Running generation 3 *****

Population's average fitness: -115.61796 stdev: 21.39701
 Best fitness: -81.62814 - size: (4, 95) - species 1 - id 548
 Average adjusted fitness: 0.698
 Mean genetic distance 1.282, standard deviation 0.219
 Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	3	250	-81.6	0.698	1

Total extinctions: 0
 Generation time: 8.563 sec (13.365 average)

***** Running generation 4 *****

Population's average fitness: -112.78031 stdev: 18.88317
 Best fitness: -82.70302 - size: (4, 95) - species 1 - id 1048
 Average adjusted fitness: 0.716
 Mean genetic distance 1.294, standard deviation 0.190
 Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
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=====
1    4    250    -82.7    0.716    2
Total extinctions: 0
Generation time: 8.163 sec (12.325 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-4

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***** Running generation 5 *****

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Population's average fitness: -112.55880 stdev: 18.67250
Best fitness: -68.88737 - size: (6, 88) - species 1 - id 1228
Average adjusted fitness: 0.615
Mean genetic distance 1.378, standard deviation 0.201
Population of 250 members in 1 species:
  ID  age  size  fitness  adj fit  stag
=====
  1   5   250   -68.9    0.615    0
Total extinctions: 0
Generation time: 7.403 sec (11.505 average)

```

***** Running generation 6 *****

```

Population's average fitness: -115.24882 stdev: 22.65271
Best fitness: -74.28083 - size: (6, 88) - species 1 - id 1228
Average adjusted fitness: 0.730
Mean genetic distance 1.419, standard deviation 0.205
Population of 250 members in 1 species:
  ID  age  size  fitness  adj fit  stag
=====
  1   6   250   -74.3    0.730    1
Total extinctions: 0
Generation time: 9.176 sec (11.172 average)

```

***** Running generation 7 *****

```

Population's average fitness: -111.64920 stdev: 17.50764
Best fitness: -75.91035 - size: (6, 88) - species 1 - id 1228
Average adjusted fitness: 0.669
Mean genetic distance 1.466, standard deviation 0.197
Population of 250 members in 1 species:
  ID  age  size  fitness  adj fit  stag
=====
  1   7   250   -75.9    0.669    2
Total extinctions: 0
Generation time: 7.343 sec (10.693 average)

```

***** Running generation 8 *****

```

Population's average fitness: -111.13437 stdev: 21.63282
Best fitness: -45.82923 - size: (6, 89) - species 1 - id 1966
Average adjusted fitness: 0.545
Mean genetic distance 1.449, standard deviation 0.204
Population of 250 members in 1 species:
  ID  age  size  fitness  adj fit  stag
=====
  1   8   250   -45.8    0.545    0
Total extinctions: 0
Generation time: 9.035 sec (10.509 average)

```

***** Running generation 9 *****

Population's average fitness: -108.22889 stdev: 17.06388
 Best fitness: -50.29308 - size: (6, 87) - species 1 - id 2373
 Average adjusted fitness: 0.572
 Mean genetic distance 1.585, standard deviation 0.204
 Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	9	250	-50.3	0.572	1

Total extinctions: 0
 Generation time: 7.125 sec (10.171 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-9

***** Running generation 10 *****

Population's average fitness: -104.29779 stdev: 14.86463
 Best fitness: -37.41439 - size: (8, 97) - species 1 - id 2556
 Average adjusted fitness: 0.537
 Mean genetic distance 1.678, standard deviation 0.183
 Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	10	250	-37.4	0.537	0

Total extinctions: 0
 Generation time: 7.136 sec (8.421 average)

***** Running generation 11 *****

Population's average fitness: -103.50669 stdev: 19.06386
 Best fitness: -4.16775 - size: (9, 95) - species 1 - id 2684
 Average adjusted fitness: 0.445
 Mean genetic distance 1.726, standard deviation 0.189
 Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	11	250	-4.2	0.445	0

Total extinctions: 0
 Generation time: 7.249 sec (8.070 average)

***** Running generation 12 *****

Population's average fitness: -103.49412 stdev: 27.56360
 Best fitness: -2.60842 - size: (9, 95) - species 1 - id 2684
 Average adjusted fitness: 0.477
 Mean genetic distance 1.827, standard deviation 0.253
 Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	12	250	-2.6	0.477	0

Total extinctions: 0
 Generation time: 9.964 sec (8.116 average)

***** Running generation 13 *****

Population's average fitness: -95.39203 stdev: 34.67786
 Best fitness: 3.07643 - size: (8, 98) - species 1 - id 3286
 Average adjusted fitness: 0.464
 Mean genetic distance 2.056, standard deviation 0.178
 Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
1	13	250	3.1	0.464	0

Total extinctions: 0
Generation time: 12.310 sec (8.490 average)

***** Running generation 14 *****

Population's average fitness: -92.00836 stdev: 39.78393
Best fitness: 2.37417 - size: (8, 93) - species 1 - id 3152
Average adjusted fitness: 0.653
Mean genetic distance 2.168, standard deviation 0.248
Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
1	14	250	2.4	0.653	1

Total extinctions: 0
Generation time: 10.094 sec (8.683 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-14

***** Running generation 15 *****

Population's average fitness: -79.28905 stdev: 44.42758
Best fitness: 4.57247 - size: (8, 94) - species 1 - id 3833
Average adjusted fitness: 0.565
Mean genetic distance 2.253, standard deviation 0.306
Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
1	15	250	4.6	0.565	0

Total extinctions: 0
Generation time: 13.846 sec (9.328 average)

***** Running generation 16 *****

Population's average fitness: -78.81525 stdev: 45.72113
Best fitness: 22.39094 - size: (8, 96) - species 1 - id 4083
Average adjusted fitness: 0.511
Mean genetic distance 2.045, standard deviation 0.481
Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
1	16	250	22.4	0.511	0

Total extinctions: 0
Generation time: 12.604 sec (9.671 average)

***** Running generation 17 *****

Population's average fitness: -72.21712 stdev: 47.01498
Best fitness: 8.22089 - size: (8, 90) - species 1 - id 4225
Average adjusted fitness: 0.574
Mean genetic distance 2.047, standard deviation 0.456
Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
1	17	250	8.2	0.574	1

Total extinctions: 0
Generation time: 14.112 sec (10.347 average)

***** Running generation 18 *****

Population's average fitness: -74.76056 stdev: 47.87960
 Best fitness: 2.51496 - size: (9, 95) - species 1 - id 4402
 Average adjusted fitness: 0.567
 Mean genetic distance 2.010, standard deviation 0.457
 Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	18	250	2.5	0.567	2

Total extinctions: 0
 Generation time: 12.007 sec (10.645 average)

***** Running generation 19 *****

Population's average fitness: -71.25352 stdev: 49.77594
 Best fitness: 8.13130 - size: (7, 86) - species 1 - id 4643
 Average adjusted fitness: 0.580
 Mean genetic distance 2.089, standard deviation 0.454
 Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	19	250	8.1	0.580	3

Total extinctions: 0
 Generation time: 13.868 sec (11.319 average)
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 walker_Run1\neat-checkpoint-19

***** Running generation 20 *****

Population's average fitness: -66.87615 stdev: 49.75762
 Best fitness: 6.45001 - size: (7, 86) - species 1 - id 4643
 Average adjusted fitness: 0.609
 Mean genetic distance 2.108, standard deviation 0.448
 Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	20	250	6.5	0.609	4

Total extinctions: 0
 Generation time: 14.788 sec (12.084 average)

***** Running generation 21 *****

Population's average fitness: -70.43009 stdev: 47.04700
 Best fitness: 4.82349 - size: (7, 89) - species 1 - id 5005
 Average adjusted fitness: 0.571
 Mean genetic distance 2.223, standard deviation 0.393
 Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	21	250	4.8	0.571	5

Total extinctions: 0
 Generation time: 13.494 sec (12.709 average)

***** Running generation 22 *****

Population's average fitness: -70.32905 stdev: 49.84075
 Best fitness: 12.90538 - size: (9, 95) - species 1 - id 5323
 Average adjusted fitness: 0.541
 Mean genetic distance 2.246, standard deviation 0.386

Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
1	22	250	12.9	0.541	6

Total extinctions: 0

Generation time: 13.342 sec (13.047 average)

***** Running generation 23 *****

Population's average fitness: -63.00557 stdev: 49.12897

Best fitness: 23.61244 - size: (9, 97) - species 1 - id 5498

Average adjusted fitness: 0.582

Mean genetic distance 2.237, standard deviation 0.424

Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
1	23	250	23.6	0.582	0

Total extinctions: 0

Generation time: 14.959 sec (13.311 average)

***** Running generation 24 *****

Population's average fitness: -66.13541 stdev: 48.27495

Best fitness: 19.04167 - size: (11, 97) - species 1 - id 5768

Average adjusted fitness: 0.490

Mean genetic distance 2.285, standard deviation 0.306

Population of 250 members in 1 species:

ID	age	size	fitness	adj fit	stag
1	24	250	19.0	0.490	1

Total extinctions: 0

Generation time: 14.393 sec (13.741 average)

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walker_Run1\neat-checkpoint-24

***** Running generation 25 *****

Population's average fitness: -71.21578 stdev: 50.70465

Best fitness: 22.60893 - size: (10, 93) - species 1 - id 5908

Average adjusted fitness: 0.552

Mean genetic distance 2.360, standard deviation 0.347

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	25	136	22.6	0.552	2
2	0	114	--	--	0

Total extinctions: 0

Generation time: 13.674 sec (13.724 average)

***** Running generation 26 *****

Population's average fitness: -63.08171 stdev: 51.11266

Best fitness: 32.91699 - size: (9, 86) - species 1 - id 6334

Average adjusted fitness: 0.638

Mean genetic distance 2.370, standard deviation 0.362

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	26	18	32.9	0.645	0
2	1	232	20.2	0.630	0

Total extinctions: 0
 Generation time: 14.846 sec (13.948 average)

***** Running generation 27 *****

Population's average fitness: -58.67622 stdev: 52.00133
 Best fitness: 37.91011 - size: (9, 95) - species 2 - id 5323
 Average adjusted fitness: 0.484
 Mean genetic distance 2.390, standard deviation 0.321
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	27	18	-2.8	0.418	1
2	2	232	37.9	0.550	0

Total extinctions: 0
 Generation time: 15.412 sec (14.078 average)

***** Running generation 28 *****

Population's average fitness: -65.12244 stdev: 50.87837
 Best fitness: 28.61210 - size: (9, 95) - species 2 - id 6880
 Average adjusted fitness: 0.531
 Mean genetic distance 2.317, standard deviation 0.354
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	28	1	-1.8	0.505	2
2	3	249	28.6	0.556	1

Total extinctions: 0
 Generation time: 14.994 sec (14.377 average)

***** Running generation 29 *****

Population's average fitness: -59.37215 stdev: 53.17456
 Best fitness: 24.10124 - size: (9, 95) - species 2 - id 6880
 Average adjusted fitness: 0.514
 Mean genetic distance 2.087, standard deviation 0.595
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	29	53	-93.2	0.431	3
2	4	197	24.1	0.596	2

Total extinctions: 0
 Generation time: 16.168 sec (14.607 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-29

***** Running generation 30 *****

Population's average fitness: -52.57233 stdev: 53.87099
 Best fitness: 38.57336 - size: (11, 99) - species 2 - id 7306
 Average adjusted fitness: 0.655
 Mean genetic distance 1.999, standard deviation 0.800
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	30	91	0.5	0.675	4
2	5	159	38.6	0.634	0

Total extinctions: 0
 Generation time: 16.218 sec (14.750 average)

***** Running generation 31 *****

Population's average fitness: -55.34171 stdev: 52.36448
 Best fitness: 38.14344 - size: (12, 92) - species 2 - id 7502
 Average adjusted fitness: 0.556
 Mean genetic distance 1.970, standard deviation 0.776
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	31	114	3.6	0.610	5
2	6	136	38.1	0.503	1

Total extinctions: 0
 Generation time: 16.445 sec (15.045 average)

***** Running generation 32 *****

Population's average fitness: -42.75409 stdev: 52.78726
 Best fitness: 39.44162 - size: (7, 72) - species 2 - id 7768
 Average adjusted fitness: 0.640
 Mean genetic distance 1.980, standard deviation 0.711
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	32	121	5.5	0.660	6
2	7	129	39.4	0.620	0

Total extinctions: 0
 Generation time: 19.560 sec (15.667 average)

***** Running generation 33 *****

Population's average fitness: -45.58710 stdev: 53.15458
 Best fitness: 38.10084 - size: (6, 68) - species 2 - id 8063
 Average adjusted fitness: 0.661
 Mean genetic distance 2.024, standard deviation 0.633
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	33	125	2.4	0.679	7
2	8	125	38.1	0.644	1

Total extinctions: 0
 Generation time: 18.522 sec (16.023 average)

***** Running generation 34 *****

Population's average fitness: -56.42784 stdev: 51.89036
 Best fitness: 37.80424 - size: (8, 78) - species 2 - id 8100
 Average adjusted fitness: 0.526
 Mean genetic distance 1.982, standard deviation 0.653
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	34	130	3.0	0.565	8
2	9	120	37.8	0.487	2

Total extinctions: 0
 Generation time: 16.307 sec (16.215 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-34

***** Running generation 35 *****

Population's average fitness: -47.70356 stdev: 51.41088
 Best fitness: 43.45297 - size: (12, 92) - species 2 - id 7502
 Average adjusted fitness: 0.600
 Mean genetic distance 2.017, standard deviation 0.600
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	35	131	4.3	0.625	9
2	10	119	43.5	0.574	0

Total extinctions: 0
 Generation time: 18.070 sec (16.654 average)

***** Running generation 36 *****

Population's average fitness: -51.60755 stdev: 54.15071
 Best fitness: 49.37969 - size: (11, 86) - species 2 - id 8730
 Average adjusted fitness: 0.562
 Mean genetic distance 2.117, standard deviation 0.544
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	36	127	5.0	0.549	10
2	11	123	49.4	0.574	0

Total extinctions: 0
 Generation time: 16.607 sec (16.830 average)

***** Running generation 37 *****

Population's average fitness: -50.54084 stdev: 52.40111
 Best fitness: 42.90727 - size: (11, 88) - species 2 - id 8970
 Average adjusted fitness: 0.501
 Mean genetic distance 2.214, standard deviation 0.525
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	37	129	5.7	0.525	11
2	12	121	42.9	0.477	1

Total extinctions: 0
 Generation time: 16.838 sec (16.973 average)

***** Running generation 38 *****

Population's average fitness: -46.39248 stdev: 56.18971
 Best fitness: 53.42031 - size: (12, 90) - species 2 - id 9153
 Average adjusted fitness: 0.574
 Mean genetic distance 2.213, standard deviation 0.543
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	38	127	6.5	0.572	12
2	13	123	53.4	0.576	0

Total extinctions: 0
 Generation time: 18.373 sec (17.311 average)

***** Running generation 39 *****

Population's average fitness: -52.01351 stdev: 55.87998
 Best fitness: 48.23890 - size: (9, 78) - species 2 - id 9402
 Average adjusted fitness: 0.566

Mean genetic distance 2.245, standard deviation 0.520

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	39	128	4.6	0.585	13
2	14	122	48.2	0.547	1

Total extinctions: 0

Generation time: 16.538 sec (17.348 average)

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walker_Run1\neat-checkpoint-39

***** Running generation 40 *****

Population's average fitness: -44.17262 stdev: 53.36135

Best fitness: 49.50346 - size: (9, 77) - species 2 - id 9626

Average adjusted fitness: 0.534

Mean genetic distance 2.209, standard deviation 0.628

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	40	131	4.3	0.569	14
2	15	119	49.5	0.500	2

Total extinctions: 0

Generation time: 17.827 sec (17.509 average)

***** Running generation 41 *****

Population's average fitness: -50.80326 stdev: 55.39301

Best fitness: 51.11787 - size: (11, 83) - species 2 - id 8712

Average adjusted fitness: 0.552

Mean genetic distance 2.261, standard deviation 0.520

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	41	130	3.9	0.566	15
2	16	120	51.1	0.537	3

Total extinctions: 0

Generation time: 17.117 sec (17.576 average)

***** Running generation 42 *****

Population's average fitness: -41.12718 stdev: 52.58815

Best fitness: 46.97443 - size: (10, 81) - species 2 - id 10115

Average adjusted fitness: 0.544

Mean genetic distance 2.268, standard deviation 0.501

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	42	131	3.4	0.571	16
2	17	119	47.0	0.518	4

Total extinctions: 0

Generation time: 18.443 sec (17.464 average)

***** Running generation 43 *****

Population's average fitness: -46.96680 stdev: 53.74331

Best fitness: 51.64756 - size: (9, 79) - species 2 - id 10311

Average adjusted fitness: 0.541

Mean genetic distance 2.293, standard deviation 0.493

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	43	132	4.9	0.577	17
2	18	118	51.6	0.506	5

Total extinctions: 0

Generation time: 17.925 sec (17.404 average)

***** Running generation 44 *****

Population's average fitness: -43.43812 stdev: 54.32645

Best fitness: 55.72401 - size: (9, 75) - species 2 - id 10635

Average adjusted fitness: 0.576

Mean genetic distance 2.293, standard deviation 0.520

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	44	131	4.0	0.594	18
2	19	119	55.7	0.557	0

Total extinctions: 0

Generation time: 17.897 sec (17.563 average)

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walker_Run1\neat-checkpoint-44

***** Running generation 45 *****

Population's average fitness: -41.28364 stdev: 54.48254

Best fitness: 55.75259 - size: (9, 75) - species 2 - id 10635

Average adjusted fitness: 0.540

Mean genetic distance 2.265, standard deviation 0.607

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	45	127	3.2	0.533	19
2	20	123	55.8	0.546	0

Total extinctions: 0

Generation time: 17.650 sec (17.521 average)

***** Running generation 46 *****

Population's average fitness: -45.00232 stdev: 56.05871

Best fitness: 53.89592 - size: (11, 78) - species 2 - id 10865

Average adjusted fitness: 0.579

Mean genetic distance 2.289, standard deviation 0.617

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	46	129	14.7	0.605	20
2	21	121	53.9	0.554	1

Total extinctions: 0

Generation time: 18.087 sec (17.669 average)

***** Running generation 47 *****

Population's average fitness: -47.38244 stdev: 57.10086

Best fitness: 59.62692 - size: (11, 79) - species 2 - id 11043

Average adjusted fitness: 0.559

Mean genetic distance 2.355, standard deviation 0.548

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====

1	47	128	16.4	0.574	21
2	22	122	59.6	0.545	0

Total extinctions: 0

Generation time: 17.065 sec (17.692 average)

***** Running generation 48 *****

Population's average fitness: -51.17810 stdev: 58.00920

Best fitness: 46.85793 - size: (11, 79) - species 2 - id 11043

Average adjusted fitness: 0.570

Mean genetic distance 2.322, standard deviation 0.591

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	48	129	24.8	0.592	22
2	23	121	46.9	0.548	1

Total extinctions: 0

Generation time: 16.160 sec (17.471 average)

***** Running generation 49 *****

Population's average fitness: -47.66870 stdev: 55.38343

Best fitness: 48.59053 - size: (9, 67) - species 2 - id 11777

Average adjusted fitness: 0.550

Mean genetic distance 2.385, standard deviation 0.539

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	49	128	3.6	0.572	23
2	24	122	48.6	0.528	2

Total extinctions: 0

Generation time: 17.518 sec (17.569 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-49

***** Running generation 50 *****

Population's average fitness: -44.98800 stdev: 55.85414

Best fitness: 51.28965 - size: (11, 78) - species 2 - id 10865

Average adjusted fitness: 0.576

Mean genetic distance 2.358, standard deviation 0.582

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	50	126	2.5	0.565	24
2	25	124	51.3	0.588	3

Total extinctions: 0

Generation time: 17.659 sec (17.552 average)

***** Running generation 51 *****

Population's average fitness: -47.87194 stdev: 54.66024

Best fitness: 66.21569 - size: (11, 81) - species 2 - id 12199

Average adjusted fitness: 0.530

Mean genetic distance 2.231, standard deviation 0.596

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	51	127	16.5	0.535	25
2	26	123	66.2	0.526	0

Total extinctions: 0
 Generation time: 17.016 sec (17.542 average)

***** Running generation 52 *****

Population's average fitness: -42.40124 stdev: 58.44831
 Best fitness: 55.38829 - size: (11, 81) - species 2 - id 12199
 Average adjusted fitness: 0.589
 Mean genetic distance 2.203, standard deviation 0.599
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	52	126	27.7	0.586	26
2	27	124	55.4	0.592	1

Total extinctions: 0
 Generation time: 17.861 sec (17.484 average)

***** Running generation 53 *****

Population's average fitness: -45.93014 stdev: 53.40127
 Best fitness: 60.15677 - size: (7, 62) - species 2 - id 12466
 Average adjusted fitness: 0.502
 Mean genetic distance 2.244, standard deviation 0.584
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	53	129	18.7	0.530	27
2	28	121	60.2	0.474	2

Total extinctions: 0
 Generation time: 17.263 sec (17.418 average)

***** Running generation 54 *****

Population's average fitness: -43.67406 stdev: 54.80232
 Best fitness: 62.27001 - size: (7, 62) - species 2 - id 12466
 Average adjusted fitness: 0.538
 Mean genetic distance 2.279, standard deviation 0.553
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	54	130	24.2	0.554	28
2	29	120	62.3	0.522	3

Total extinctions: 0
 Generation time: 17.158 sec (17.344 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-54

***** Running generation 55 *****

Population's average fitness: -41.57548 stdev: 57.26248
 Best fitness: 54.48856 - size: (11, 69) - species 2 - id 13130
 Average adjusted fitness: 0.600
 Mean genetic distance 2.309, standard deviation 0.531
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	55	129	30.3	0.612	29
2	30	121	54.5	0.588	4

Total extinctions: 0
 Generation time: 17.662 sec (17.345 average)

***** Running generation 56 *****

Population's average fitness: -33.06037 stdev: 59.58041
 Best fitness: 57.56732 - size: (7, 62) - species 2 - id 12466
 Average adjusted fitness: 0.689
 Mean genetic distance 2.290, standard deviation 0.530
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	56	124	19.8	0.648	30
2	31	126	57.6	0.731	5

Total extinctions: 0
 Generation time: 19.168 sec (17.453 average)

***** Running generation 57 *****

Population's average fitness: -38.27214 stdev: 58.30360
 Best fitness: 55.07711 - size: (12, 71) - species 2 - id 13574
 Average adjusted fitness: 0.577
 Mean genetic distance 2.288, standard deviation 0.581
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	57	120	34.1	0.564	0
2	32	130	55.1	0.590	6

Total extinctions: 0
 Generation time: 17.850 sec (17.532 average)

***** Running generation 58 *****

Population's average fitness: -45.84815 stdev: 58.26416
 Best fitness: 50.22510 - size: (12, 72) - species 2 - id 13859
 Average adjusted fitness: 0.661
 Mean genetic distance 2.280, standard deviation 0.618
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	58	123	17.7	0.669	1
2	33	127	50.2	0.652	7

Total extinctions: 0
 Generation time: 16.880 sec (17.604 average)

***** Running generation 59 *****

Population's average fitness: -44.14354 stdev: 56.56394
 Best fitness: 52.28345 - size: (12, 77) - species 2 - id 14012
 Average adjusted fitness: 0.597
 Mean genetic distance 2.339, standard deviation 0.609
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	59	124	7.3	0.597	2
2	34	126	52.3	0.598	8

Total extinctions: 0
 Generation time: 16.828 sec (17.535 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-59

***** Running generation 60 *****

Population's average fitness: -40.34213 stdev: 58.57922
 Best fitness: 66.13652 - size: (13, 87) - species 2 - id 14050
 Average adjusted fitness: 0.560
 Mean genetic distance 2.390, standard deviation 0.593
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	60	125	37.2	0.565	0
2	35	125	66.1	0.554	9

Total extinctions: 0
 Generation time: 17.098 sec (17.479 average)

***** Running generation 61 *****

Population's average fitness: -39.97241 stdev: 60.41107
 Best fitness: 56.55760 - size: (12, 78) - species 2 - id 14315
 Average adjusted fitness: 0.597
 Mean genetic distance 2.371, standard deviation 0.638
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	61	124	29.8	0.586	1
2	36	126	56.6	0.609	10

Total extinctions: 0
 Generation time: 17.632 sec (17.540 average)

***** Running generation 62 *****

Population's average fitness: -44.04957 stdev: 59.36179
 Best fitness: 58.17210 - size: (13, 76) - species 2 - id 14463
 Average adjusted fitness: 0.578
 Mean genetic distance 2.302, standard deviation 0.739
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	62	125	30.6	0.581	2
2	37	125	58.2	0.576	11

Total extinctions: 0
 Generation time: 17.728 sec (17.527 average)

***** Running generation 63 *****

Population's average fitness: -43.48131 stdev: 61.06335
 Best fitness: 56.78489 - size: (12, 71) - species 2 - id 14958
 Average adjusted fitness: 0.580
 Mean genetic distance 2.379, standard deviation 0.695
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	63	125	47.6	0.550	0
2	38	125	56.8	0.609	12

Total extinctions: 0
 Generation time: 17.311 sec (17.532 average)

***** Running generation 64 *****

Population's average fitness: -43.70875 stdev: 59.87766
 Best fitness: 61.20825 - size: (12, 82) - species 2 - id 15214
 Average adjusted fitness: 0.562

Mean genetic distance 2.380, standard deviation 0.664

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	64	124	43.6	0.555	1
2	39	126	61.2	0.568	13

Total extinctions: 0

Generation time: 17.801 sec (17.596 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-64

***** Running generation 65 *****

Population's average fitness: -43.71533 stdev: 58.81323

Best fitness: 54.72482 - size: (12, 70) - species 2 - id 15231

Average adjusted fitness: 0.577

Mean genetic distance 2.399, standard deviation 0.637

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	65	127	45.4	0.599	2
2	40	123	54.7	0.555	14

Total extinctions: 0

Generation time: 17.039 sec (17.534 average)

***** Running generation 66 *****

Population's average fitness: -45.87143 stdev: 61.96459

Best fitness: 61.31237 - size: (13, 77) - species 2 - id 15665

Average adjusted fitness: 0.508

Mean genetic distance 2.392, standard deviation 0.650

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	66	123	49.3	0.485	0
2	41	127	61.3	0.531	15

Total extinctions: 0

Generation time: 16.333 sec (17.250 average)

***** Running generation 67 *****

Population's average fitness: -47.58584 stdev: 62.65083

Best fitness: 55.06957 - size: (13, 79) - species 2 - id 15602

Average adjusted fitness: 0.566

Mean genetic distance 2.451, standard deviation 0.609

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	67	123	51.7	0.554	0
2	42	127	55.1	0.578	16

Total extinctions: 0

Generation time: 15.740 sec (17.039 average)

***** Running generation 68 *****

Population's average fitness: -40.00347 stdev: 62.29949

Best fitness: 61.85449 - size: (12, 79) - species 2 - id 16064

Average adjusted fitness: 0.579

Mean genetic distance 2.446, standard deviation 0.619

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	68	124	55.3	0.575	0
2	43	126	61.9	0.583	17

Total extinctions: 0

Generation time: 16.705 sec (17.022 average)

***** Running generation 69 *****

Population's average fitness: -41.58800 stdev: 63.71830

Best fitness: 55.30929 - size: (11, 78) - species 2 - id 16131

Average adjusted fitness: 0.486

Mean genetic distance 2.506, standard deviation 0.535

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	69	141	46.7	0.475	1
2	44	109	55.3	0.497	18

Total extinctions: 0

Generation time: 16.781 sec (17.017 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-69

***** Running generation 70 *****

Population's average fitness: -43.84949 stdev: 65.07759

Best fitness: 57.95397 - size: (13, 75) - species 2 - id 16553

Average adjusted fitness: 0.547

Mean genetic distance 2.512, standard deviation 0.548

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	70	110	50.1	0.516	2
2	45	140	58.0	0.579	19

Total extinctions: 0

Generation time: 16.433 sec (16.950 average)

***** Running generation 71 *****

Population's average fitness: -46.26960 stdev: 64.84274

Best fitness: 57.28543 - size: (12, 80) - species 2 - id 16293

Average adjusted fitness: 0.551

Mean genetic distance 2.457, standard deviation 0.570

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	71	118	52.1	0.555	3
2	46	132	57.3	0.548	20

Total extinctions: 0

Generation time: 15.772 sec (16.764 average)

***** Running generation 72 *****

Population's average fitness: -45.01560 stdev: 65.10231

Best fitness: 52.38310 - size: (11, 74) - species 2 - id 16808

Average adjusted fitness: 0.659

Mean genetic distance 2.385, standard deviation 0.565

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====

1	72	119	49.0	0.625	4
2	47	131	52.4	0.693	21

Total extinctions: 0

Generation time: 16.028 sec (16.594 average)

***** Running generation 73 *****

Population's average fitness: -49.23914 stdev: 63.66355

Best fitness: 55.59897 - size: (14, 73) - species 2 - id 17199

Average adjusted fitness: 0.517

Mean genetic distance 2.272, standard deviation 0.607

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	73	123	49.3	0.522	5
2	48	127	55.6	0.512	22

Total extinctions: 0

Generation time: 15.934 sec (16.457 average)

***** Running generation 74 *****

Population's average fitness: -45.36728 stdev: 66.15076

Best fitness: 56.49914 - size: (11, 73) - species 2 - id 17509

Average adjusted fitness: 0.619

Mean genetic distance 2.247, standard deviation 0.637

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	74	122	55.0	0.603	6
2	49	128	56.5	0.634	23

Total extinctions: 0

Generation time: 15.900 sec (16.267 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-74

***** Running generation 75 *****

Population's average fitness: -38.97817 stdev: 65.24307

Best fitness: 54.92672 - size: (14, 85) - species 1 - id 17647

Average adjusted fitness: 0.560

Mean genetic distance 2.228, standard deviation 0.685

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	75	123	54.9	0.554	7
2	50	127	53.6	0.566	24

Total extinctions: 0

Generation time: 16.233 sec (16.186 average)

***** Running generation 76 *****

Population's average fitness: -43.15509 stdev: 63.00713

Best fitness: 55.03983 - size: (14, 85) - species 1 - id 17647

Average adjusted fitness: 0.500

Mean genetic distance 2.221, standard deviation 0.707

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	76	118	55.0	0.454	8
2	51	132	51.6	0.545	25

Total extinctions: 0
 Generation time: 16.164 sec (16.169 average)

***** Running generation 77 *****

Population's average fitness: -40.58893 stdev: 64.63200
 Best fitness: 56.05250 - size: (15, 87) - species 1 - id 17573
 Average adjusted fitness: 0.545
 Mean genetic distance 2.212, standard deviation 0.729
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	77	119	56.1	0.519	0
2	52	131	55.8	0.571	26

Total extinctions: 0
 Generation time: 16.161 sec (16.211 average)

***** Running generation 78 *****

Population's average fitness: -42.29872 stdev: 63.58875
 Best fitness: 63.58570 - size: (12, 71) - species 2 - id 18101
 Average adjusted fitness: 0.503
 Mean genetic distance 2.259, standard deviation 0.701
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	78	120	55.9	0.480	1
2	53	130	63.6	0.527	27

Total extinctions: 0
 Generation time: 16.220 sec (16.163 average)

***** Running generation 79 *****

Population's average fitness: -40.33717 stdev: 64.58792
 Best fitness: 55.18490 - size: (14, 79) - species 2 - id 18664
 Average adjusted fitness: 0.546
 Mean genetic distance 2.303, standard deviation 0.688
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	79	126	54.6	0.575	2
2	54	124	55.2	0.517	28

Total extinctions: 0
 Generation time: 16.640 sec (16.148 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-79

***** Running generation 80 *****

Population's average fitness: -40.30831 stdev: 64.67697
 Best fitness: 63.20191 - size: (13, 81) - species 1 - id 18537
 Average adjusted fitness: 0.552
 Mean genetic distance 2.289, standard deviation 0.723
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	80	124	63.2	0.543	0
2	55	126	57.7	0.561	29

Total extinctions: 0
 Generation time: 16.565 sec (16.162 average)

***** Running generation 81 *****

Population's average fitness: -46.47397 stdev: 63.57065
 Best fitness: 61.59320 - size: (13, 81) - species 1 - id 18537
 Average adjusted fitness: 0.509
 Mean genetic distance 2.250, standard deviation 0.694
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	81	125	61.6	0.511	1
2	56	125	53.7	0.506	30

Total extinctions: 0
 Generation time: 15.320 sec (16.116 average)

***** Running generation 82 *****

Population's average fitness: -42.13404 stdev: 63.70879
 Best fitness: 63.15519 - size: (15, 81) - species 2 - id 19223
 Average adjusted fitness: 0.570
 Mean genetic distance 2.235, standard deviation 0.692
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	82	126	54.8	0.579	2
2	57	124	63.2	0.562	31

Total extinctions: 0
 Generation time: 16.866 sec (16.200 average)

***** Running generation 83 *****

Population's average fitness: -35.38489 stdev: 63.40810
 Best fitness: 64.06861 - size: (13, 71) - species 2 - id 19543
 Average adjusted fitness: 0.564
 Mean genetic distance 2.287, standard deviation 0.630
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	83	125	59.4	0.568	3
2	58	125	64.1	0.561	32

Total extinctions: 0
 Generation time: 16.853 sec (16.292 average)

***** Running generation 84 *****

Population's average fitness: -50.38329 stdev: 65.45838
 Best fitness: 62.90453 - size: (13, 71) - species 2 - id 19543
 Average adjusted fitness: 0.480
 Mean genetic distance 2.347, standard deviation 0.597
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	84	120	60.4	0.441	4
2	59	130	62.9	0.519	33

Total extinctions: 0
 Generation time: 14.311 sec (16.133 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-84

***** Running generation 85 *****

Population's average fitness: -45.32760 stdev: 66.34146
 Best fitness: 64.19286 - size: (13, 84) - species 1 - id 19133
 Average adjusted fitness: 0.450
 Mean genetic distance 2.342, standard deviation 0.651
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	85	116	64.2	0.406	0
2	60	134	58.8	0.494	34

Total extinctions: 0
 Generation time: 14.597 sec (15.970 average)

***** Running generation 86 *****

Population's average fitness: -44.10905 stdev: 66.80561
 Best fitness: 61.38202 - size: (14, 88) - species 1 - id 20208
 Average adjusted fitness: 0.593
 Mean genetic distance 2.391, standard deviation 0.634
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	86	123	61.4	0.621	1
2	61	127	59.0	0.564	35

Total extinctions: 0
 Generation time: 15.274 sec (15.881 average)

***** Running generation 87 *****

Population's average fitness: -46.42613 stdev: 64.00130
 Best fitness: 60.17746 - size: (14, 69) - species 2 - id 19970
 Average adjusted fitness: 0.499
 Mean genetic distance 2.449, standard deviation 0.621
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	87	124	56.4	0.502	2
2	62	126	60.2	0.497	36

Total extinctions: 0
 Generation time: 15.230 sec (15.788 average)

***** Running generation 88 *****

Population's average fitness: -47.63988 stdev: 64.69055
 Best fitness: 60.66732 - size: (13, 80) - species 1 - id 19932
 Average adjusted fitness: 0.559
 Mean genetic distance 2.484, standard deviation 0.651
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	88	126	60.7	0.570	3
2	63	124	58.8	0.548	37

Total extinctions: 0
 Generation time: 15.703 sec (15.736 average)

***** Running generation 89 *****

Population's average fitness: -47.88088 stdev: 65.84576
 Best fitness: 66.82922 - size: (13, 80) - species 1 - id 19932
 Average adjusted fitness: 0.558

Mean genetic distance 2.542, standard deviation 0.620

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	89	127	66.8	0.573	0
2	64	123	61.5	0.542	38

Total extinctions: 0

Generation time: 14.964 sec (15.568 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-89

***** Running generation 90 *****

Population's average fitness: -46.44556 stdev: 66.78009

Best fitness: 67.93063 - size: (15, 87) - species 1 - id 19916

Average adjusted fitness: 0.541

Mean genetic distance 2.504, standard deviation 0.612

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	90	124	67.9	0.521	0
2	65	126	64.2	0.560	39

Total extinctions: 0

Generation time: 15.818 sec (15.494 average)

***** Running generation 91 *****

Population's average fitness: -31.96108 stdev: 62.82774

Best fitness: 60.93028 - size: (14, 67) - species 2 - id 21238

Average adjusted fitness: 0.647

Mean genetic distance 2.507, standard deviation 0.654

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	91	123	54.1	0.629	1
2	66	127	60.9	0.666	40

Total extinctions: 0

Generation time: 17.897 sec (15.751 average)

***** Running generation 92 *****

Population's average fitness: -55.89623 stdev: 63.12172

Best fitness: 59.11464 - size: (11, 74) - species 2 - id 21639

Average adjusted fitness: 0.395

Mean genetic distance 2.483, standard deviation 0.668

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	92	126	58.1	0.411	2
2	67	124	59.1	0.380	41

Total extinctions: 0

Generation time: 13.680 sec (15.433 average)

***** Running generation 93 *****

Population's average fitness: -45.64424 stdev: 64.46573

Best fitness: 62.14340 - size: (11, 74) - species 2 - id 21639

Average adjusted fitness: 0.415

Mean genetic distance 2.454, standard deviation 0.658

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	93	122	60.3	0.390	3
2	68	128	62.1	0.440	42

Total extinctions: 0

Generation time: 15.027 sec (15.250 average)

***** Running generation 94 *****

Population's average fitness: -57.34121 stdev: 64.31242

Best fitness: 65.91418 - size: (11, 74) - species 2 - id 21639

Average adjusted fitness: 0.463

Mean genetic distance 2.345, standard deviation 0.715

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	94	121	61.4	0.443	4
2	69	129	65.9	0.482	43

Total extinctions: 0

Generation time: 13.683 sec (15.187 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-94

***** Running generation 95 *****

Population's average fitness: -36.03640 stdev: 62.98668

Best fitness: 60.76823 - size: (16, 95) - species 1 - id 20983

Average adjusted fitness: 0.600

Mean genetic distance 2.412, standard deviation 0.664

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	95	123	60.8	0.600	5
2	70	127	57.1	0.600	44

Total extinctions: 0

Generation time: 17.727 sec (15.500 average)

***** Running generation 96 *****

Population's average fitness: -30.92878 stdev: 65.52472

Best fitness: 63.11544 - size: (13, 77) - species 1 - id 21783

Average adjusted fitness: 0.522

Mean genetic distance 2.322, standard deviation 0.712

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	96	121	63.1	0.501	6
2	71	129	59.8	0.543	45

Total extinctions: 0

Generation time: 17.565 sec (15.729 average)

***** Running generation 97 *****

Population's average fitness: -47.28904 stdev: 67.70342

Best fitness: 60.67600 - size: (16, 92) - species 1 - id 22822

Average adjusted fitness: 0.517

Mean genetic distance 2.287, standard deviation 0.727

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====

1	97	120	60.7	0.490	7
2	72	130	59.0	0.544	46

Total extinctions: 0

Generation time: 14.754 sec (15.682 average)

***** Running generation 98 *****

Population's average fitness: -54.40212 stdev: 66.20831

Best fitness: 59.44591 - size: (16, 94) - species 1 - id 22536

Average adjusted fitness: 0.501

Mean genetic distance 2.293, standard deviation 0.675

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	98	119	59.4	0.475	8
2	73	131	58.5	0.527	47

Total extinctions: 0

Generation time: 14.039 sec (15.515 average)

***** Running generation 99 *****

Population's average fitness: -48.09209 stdev: 64.31324

Best fitness: 61.03354 - size: (11, 70) - species 2 - id 22888

Average adjusted fitness: 0.479

Mean genetic distance 2.261, standard deviation 0.713

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	99	123	60.4	0.484	9
2	74	127	61.0	0.474	48

Total extinctions: 0

Generation time: 15.106 sec (15.530 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-99

***** Running generation 100 *****

Population's average fitness: -50.58296 stdev: 66.02462

Best fitness: 63.78032 - size: (16, 86) - species 1 - id 23299

Average adjusted fitness: 0.495

Mean genetic distance 2.281, standard deviation 0.691

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	100	122	63.8	0.479	10
2	75	128	62.7	0.510	49

Total extinctions: 0

Generation time: 15.056 sec (15.453 average)

***** Running generation 101 *****

Population's average fitness: -45.99708 stdev: 65.40168

Best fitness: 67.05406 - size: (10, 68) - species 2 - id 23550

Average adjusted fitness: 0.538

Mean genetic distance 2.349, standard deviation 0.731

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	101	121	60.7	0.516	11
2	76	129	67.1	0.560	0

Total extinctions: 0
 Generation time: 15.852 sec (15.249 average)

***** Running generation 102 *****

Population's average fitness: -53.70284 stdev: 66.02563
 Best fitness: 64.25770 - size: (11, 70) - species 2 - id 23970
 Average adjusted fitness: 0.496
 Mean genetic distance 2.368, standard deviation 0.667
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	102	117	56.9	0.451	12
2	77	133	64.3	0.541	1

Total extinctions: 0
 Generation time: 14.283 sec (15.309 average)

***** Running generation 103 *****

Population's average fitness: -46.53940 stdev: 64.84796
 Best fitness: 60.04723 - size: (16, 76) - species 2 - id 24190
 Average adjusted fitness: 0.489
 Mean genetic distance 2.395, standard deviation 0.622
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	103	122	56.6	0.496	13
2	78	128	60.0	0.483	2

Total extinctions: 0
 Generation time: 14.731 sec (15.280 average)

***** Running generation 104 *****

Population's average fitness: -55.86293 stdev: 63.85541
 Best fitness: 64.54567 - size: (18, 80) - species 2 - id 24420
 Average adjusted fitness: 0.462
 Mean genetic distance 2.421, standard deviation 0.661
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	104	128	61.9	0.492	14
2	79	122	64.5	0.431	3

Total extinctions: 0
 Generation time: 14.319 sec (15.343 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-104

***** Running generation 105 *****

Population's average fitness: -50.98001 stdev: 68.78489
 Best fitness: 67.75711 - size: (18, 77) - species 2 - id 24660
 Average adjusted fitness: 0.604
 Mean genetic distance 2.509, standard deviation 0.598
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	105	123	64.4	0.572	15
2	80	127	67.8	0.636	0

Total extinctions: 0
 Generation time: 15.566 sec (15.127 average)

***** Running generation 106 *****

Population's average fitness: -53.29816 stdev: 68.78124
 Best fitness: 63.26865 - size: (17, 73) - species 2 - id 24824
 Average adjusted fitness: 0.536
 Mean genetic distance 2.509, standard deviation 0.656
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	106	122	55.6	0.515	16
2	81	128	63.3	0.558	1

Total extinctions: 0
 Generation time: 13.996 sec (14.770 average)

***** Running generation 107 *****

Population's average fitness: -41.30273 stdev: 65.26174
 Best fitness: 69.67501 - size: (13, 80) - species 1 - id 24986
 Average adjusted fitness: 0.443
 Mean genetic distance 2.469, standard deviation 0.693
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	107	120	69.7	0.416	0
2	82	130	58.1	0.470	2

Total extinctions: 0
 Generation time: 15.636 sec (14.858 average)

***** Running generation 108 *****

Population's average fitness: -47.22066 stdev: 66.82110
 Best fitness: 63.83825 - size: (17, 74) - species 2 - id 25140
 Average adjusted fitness: 0.541
 Mean genetic distance 2.493, standard deviation 0.636
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	108	118	56.6	0.504	1
2	83	132	63.8	0.578	3

Total extinctions: 0
 Generation time: 14.406 sec (14.895 average)

***** Running generation 109 *****

Population's average fitness: -47.11359 stdev: 69.21540
 Best fitness: 68.83318 - size: (18, 78) - species 2 - id 25540
 Average adjusted fitness: 0.481
 Mean genetic distance 2.478, standard deviation 0.667
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	109	123	64.6	0.493	2
2	84	127	68.8	0.469	0

Total extinctions: 0
 Generation time: 14.435 sec (14.828 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-109

***** Running generation 110 *****

Population's average fitness: -42.04127 stdev: 67.60697
 Best fitness: 69.68507 - size: (12, 83) - species 1 - id 25663
 Average adjusted fitness: 0.473
 Mean genetic distance 2.474, standard deviation 0.681
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	110	124	69.7	0.473	0
2	85	126	63.6	0.472	1

Total extinctions: 0
 Generation time: 14.763 sec (14.799 average)

***** Running generation 111 *****

Population's average fitness: -45.48173 stdev: 67.12655
 Best fitness: 65.64430 - size: (18, 74) - species 2 - id 25869
 Average adjusted fitness: 0.550
 Mean genetic distance 2.552, standard deviation 0.622
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	111	128	59.1	0.579	1
2	86	122	65.6	0.521	2

Total extinctions: 0
 Generation time: 14.885 sec (14.702 average)

***** Running generation 112 *****

Population's average fitness: -45.59295 stdev: 67.88187
 Best fitness: 91.03629 - size: (17, 71) - species 2 - id 26244
 Average adjusted fitness: 0.392
 Mean genetic distance 2.513, standard deviation 0.657
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	112	124	64.4	0.374	2
2	87	126	91.0	0.410	0

Total extinctions: 0
 Generation time: 14.781 sec (14.752 average)

***** Running generation 113 *****

Population's average fitness: -46.68662 stdev: 68.26607
 Best fitness: 72.96450 - size: (18, 79) - species 2 - id 26410
 Average adjusted fitness: 0.460
 Mean genetic distance 2.479, standard deviation 0.685
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	113	125	63.4	0.459	3
2	88	125	73.0	0.462	1

Total extinctions: 0
 Generation time: 14.786 sec (14.757 average)

***** Running generation 114 *****

Population's average fitness: -35.31882 stdev: 68.82608
 Best fitness: 82.89153 - size: (18, 79) - species 2 - id 26410
 Average adjusted fitness: 0.499

Mean genetic distance 2.501, standard deviation 0.702

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	114	124	78.6	0.490	0
2	89	126	82.9	0.508	2

Total extinctions: 0

Generation time: 16.217 sec (14.947 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-114

***** Running generation 115 *****

Population's average fitness: -42.47619 stdev: 66.26628

Best fitness: 67.85119 - size: (17, 74) - species 2 - id 26924

Average adjusted fitness: 0.482

Mean genetic distance 2.459, standard deviation 0.720

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	115	127	66.0	0.501	1
2	90	123	67.9	0.462	3

Total extinctions: 0

Generation time: 15.210 sec (14.911 average)

***** Running generation 116 *****

Population's average fitness: -36.24017 stdev: 65.58600

Best fitness: 71.36216 - size: (17, 76) - species 2 - id 27120

Average adjusted fitness: 0.521

Mean genetic distance 2.466, standard deviation 0.754

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	116	128	65.0	0.531	2
2	91	122	71.4	0.510	4

Total extinctions: 0

Generation time: 16.513 sec (15.163 average)

***** Running generation 117 *****

Population's average fitness: -43.74136 stdev: 68.00960

Best fitness: 73.25800 - size: (20, 81) - species 2 - id 27353

Average adjusted fitness: 0.502

Mean genetic distance 2.461, standard deviation 0.765

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	117	122	68.7	0.465	3
2	92	128	73.3	0.539	5

Total extinctions: 0

Generation time: 15.175 sec (15.117 average)

***** Running generation 118 *****

Population's average fitness: -41.21742 stdev: 66.43498

Best fitness: 67.37788 - size: (17, 73) - species 2 - id 27365

Average adjusted fitness: 0.466

Mean genetic distance 2.445, standard deviation 0.769

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	118	120	65.5	0.438	4
2	93	130	67.4	0.494	6

Total extinctions: 0

Generation time: 15.215 sec (15.198 average)

***** Running generation 119 *****

Population's average fitness: -41.17058 stdev: 68.35252

Best fitness: 66.50590 - size: (17, 73) - species 2 - id 27365

Average adjusted fitness: 0.509

Mean genetic distance 2.475, standard deviation 0.737

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	119	118	64.5	0.476	5
2	94	132	66.5	0.542	7

Total extinctions: 0

Generation time: 15.222 sec (15.277 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-119

***** Running generation 120 *****

Population's average fitness: -48.27108 stdev: 65.77127

Best fitness: 70.14018 - size: (16, 70) - species 2 - id 27849

Average adjusted fitness: 0.471

Mean genetic distance 2.451, standard deviation 0.724

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	120	121	63.0	0.470	6
2	95	129	70.1	0.472	8

Total extinctions: 0

Generation time: 14.610 sec (15.261 average)

***** Running generation 121 *****

Population's average fitness: -48.83684 stdev: 66.43671

Best fitness: 65.51230 - size: (16, 76) - species 2 - id 28292

Average adjusted fitness: 0.499

Mean genetic distance 2.446, standard deviation 0.731

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	121	124	61.5	0.508	7
2	96	126	65.5	0.490	9

Total extinctions: 0

Generation time: 14.382 sec (15.211 average)

***** Running generation 122 *****

Population's average fitness: -33.60975 stdev: 66.97191

Best fitness: 70.15747 - size: (14, 81) - species 1 - id 26792

Average adjusted fitness: 0.646

Mean genetic distance 2.352, standard deviation 0.806

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====

1	122	123	70.2	0.636	8
2	97	127	66.8	0.656	10

Total extinctions: 0

Generation time: 16.634 sec (15.396 average)

***** Running generation 123 *****

Population's average fitness: -52.02079 stdev: 64.37291

Best fitness: 72.75368 - size: (16, 74) - species 2 - id 28567

Average adjusted fitness: 0.478

Mean genetic distance 2.385, standard deviation 0.817

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	123	125	61.4	0.483	9
2	98	125	72.8	0.473	11

Total extinctions: 0

Generation time: 14.494 sec (15.367 average)

***** Running generation 124 *****

Population's average fitness: -39.56925 stdev: 67.15977

Best fitness: 66.25986 - size: (15, 74) - species 2 - id 28950

Average adjusted fitness: 0.468

Mean genetic distance 2.329, standard deviation 0.868

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	124	122	62.7	0.444	10
2	99	128	66.3	0.492	12

Total extinctions: 0

Generation time: 15.590 sec (15.305 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-124

***** Running generation 125 *****

Population's average fitness: -36.58055 stdev: 68.08196

Best fitness: 63.20880 - size: (14, 70) - species 2 - id 29011

Average adjusted fitness: 0.577

Mean genetic distance 2.398, standard deviation 0.832

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	125	123	61.5	0.568	11
2	100	127	63.2	0.586	13

Total extinctions: 0

Generation time: 15.862 sec (15.370 average)

***** Running generation 126 *****

Population's average fitness: -36.47751 stdev: 66.95829

Best fitness: 71.03686 - size: (16, 73) - species 2 - id 29410

Average adjusted fitness: 0.579

Mean genetic distance 2.444, standard deviation 0.810

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	126	121	61.8	0.551	12
2	101	129	71.0	0.607	14

Total extinctions: 0
 Generation time: 16.333 sec (15.352 average)

***** Running generation 127 *****

Population's average fitness: -40.71397 stdev: 68.89486
 Best fitness: 70.04692 - size: (17, 71) - species 2 - id 29721
 Average adjusted fitness: 0.489
 Mean genetic distance 2.465, standard deviation 0.820
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	127	125	63.0	0.505	13
2	102	125	70.0	0.473	15

Total extinctions: 0
 Generation time: 14.471 sec (15.281 average)

***** Running generation 128 *****

Population's average fitness: -33.52034 stdev: 67.80612
 Best fitness: 63.66598 - size: (16, 71) - species 2 - id 29889
 Average adjusted fitness: 0.487
 Mean genetic distance 2.497, standard deviation 0.778
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	128	128	61.6	0.509	14
2	103	122	63.7	0.464	16

Total extinctions: 0
 Generation time: 15.880 sec (15.348 average)

***** Running generation 129 *****

Population's average fitness: -42.32754 stdev: 67.66309
 Best fitness: 68.90874 - size: (17, 78) - species 2 - id 30149
 Average adjusted fitness: 0.421
 Mean genetic distance 2.463, standard deviation 0.745
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	129	121	65.1	0.383	15
2	104	129	68.9	0.458	17

Total extinctions: 0
 Generation time: 15.050 sec (15.331 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-129

***** Running generation 130 *****

Population's average fitness: -35.50675 stdev: 68.36409
 Best fitness: 69.67078 - size: (16, 68) - species 2 - id 30127
 Average adjusted fitness: 0.544
 Mean genetic distance 2.454, standard deviation 0.716
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	130	122	59.9	0.536	16
2	105	128	69.7	0.552	18

Total extinctions: 0
 Generation time: 16.403 sec (15.510 average)

***** Running generation 131 *****

Population's average fitness: -38.97645 stdev: 66.63889
 Best fitness: 68.53765 - size: (17, 78) - species 2 - id 30149
 Average adjusted fitness: 0.483
 Mean genetic distance 2.523, standard deviation 0.745
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	131	124	57.7	0.487	17
2	106	126	68.5	0.478	19

Total extinctions: 0
 Generation time: 15.476 sec (15.619 average)

***** Running generation 132 *****

Population's average fitness: -42.91879 stdev: 69.10288
 Best fitness: 67.72920 - size: (16, 77) - species 2 - id 30338
 Average adjusted fitness: 0.686
 Mean genetic distance 2.448, standard deviation 0.766
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	132	125	62.2	0.687	18
2	107	125	67.7	0.686	20

Total extinctions: 0
 Generation time: 15.188 sec (15.475 average)

***** Running generation 133 *****

Population's average fitness: -40.67735 stdev: 65.98678
 Best fitness: 73.32289 - size: (16, 72) - species 2 - id 30133
 Average adjusted fitness: 0.500
 Mean genetic distance 2.425, standard deviation 0.781
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	133	124	62.9	0.499	19
2	108	126	73.3	0.501	21

Total extinctions: 0
 Generation time: 16.052 sec (15.630 average)

***** Running generation 134 *****

Population's average fitness: -44.13977 stdev: 68.47942
 Best fitness: 74.44224 - size: (14, 65) - species 2 - id 31310
 Average adjusted fitness: 0.527
 Mean genetic distance 2.447, standard deviation 0.790
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	134	125	61.6	0.528	20
2	109	125	74.4	0.527	22

Total extinctions: 0
 Generation time: 14.926 sec (15.564 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-134

***** Running generation 135 *****

Population's average fitness: -26.97107 stdev: 68.40343
 Best fitness: 69.43736 - size: (14, 76) - species 1 - id 31418
 Average adjusted fitness: 0.500
 Mean genetic distance 2.528, standard deviation 0.699
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	135	122	69.4	0.472	21
2	110	128	66.7	0.528	23

Total extinctions: 0
 Generation time: 16.943 sec (15.672 average)

***** Running generation 136 *****

Population's average fitness: -27.99850 stdev: 71.36891
 Best fitness: 69.81982 - size: (14, 65) - species 2 - id 31598
 Average adjusted fitness: 0.516
 Mean genetic distance 2.585, standard deviation 0.714
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	136	121	64.7	0.503	22
2	111	129	69.8	0.530	24

Total extinctions: 0
 Generation time: 16.151 sec (15.654 average)

***** Running generation 137 *****

Population's average fitness: -37.25417 stdev: 68.20602
 Best fitness: 73.43192 - size: (13, 79) - species 1 - id 31812
 Average adjusted fitness: 0.433
 Mean genetic distance 2.609, standard deviation 0.666
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	137	120	73.4	0.414	23
2	112	130	70.5	0.452	25

Total extinctions: 0
 Generation time: 15.602 sec (15.767 average)

***** Running generation 138 *****

Population's average fitness: -38.65964 stdev: 70.78211
 Best fitness: 73.95604 - size: (12, 55) - species 2 - id 32019
 Average adjusted fitness: 0.469
 Mean genetic distance 2.614, standard deviation 0.655
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	138	123	65.6	0.472	24
2	113	127	74.0	0.465	26

Total extinctions: 0
 Generation time: 14.940 sec (15.673 average)

***** Running generation 139 *****

Population's average fitness: -41.00087 stdev: 70.53562
 Best fitness: 74.30719 - size: (11, 49) - species 2 - id 32382
 Average adjusted fitness: 0.566

Mean genetic distance 2.570, standard deviation 0.709

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	139	122	74.0	0.546	25
2	114	128	74.3	0.585	27

Total extinctions: 0

Generation time: 15.123 sec (15.681 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-139

***** Running generation 140 *****

Population's average fitness: -28.23960 stdev: 67.75243

Best fitness: 75.60495 - size: (17, 72) - species 2 - id 32627

Average adjusted fitness: 0.508

Mean genetic distance 2.521, standard deviation 0.696

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	140	121	63.2	0.495	26
2	115	129	75.6	0.522	28

Total extinctions: 0

Generation time: 16.735 sec (15.714 average)

***** Running generation 141 *****

Population's average fitness: -39.19921 stdev: 67.51538

Best fitness: 71.61705 - size: (16, 72) - species 2 - id 32947

Average adjusted fitness: 0.484

Mean genetic distance 2.524, standard deviation 0.700

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	141	122	64.7	0.472	27
2	116	128	71.6	0.495	29

Total extinctions: 0

Generation time: 15.353 sec (15.701 average)

***** Running generation 142 *****

Population's average fitness: -46.88753 stdev: 67.94616

Best fitness: 70.51806 - size: (15, 67) - species 2 - id 33153

Average adjusted fitness: 0.479

Mean genetic distance 2.557, standard deviation 0.725

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	142	125	64.1	0.493	28
2	117	125	70.5	0.465	30

Total extinctions: 0

Generation time: 14.513 sec (15.634 average)

***** Running generation 143 *****

Population's average fitness: -40.50610 stdev: 68.88112

Best fitness: 70.53186 - size: (16, 66) - species 2 - id 33393

Average adjusted fitness: 0.530

Mean genetic distance 2.465, standard deviation 0.766

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	143	123	62.3	0.509	29
2	118	127	70.5	0.551	31

Total extinctions: 0

Generation time: 14.873 sec (15.516 average)

***** Running generation 144 *****

Population's average fitness: -33.19717 stdev: 68.61583

Best fitness: 73.84114 - size: (13, 63) - species 2 - id 33343

Average adjusted fitness: 0.488

Mean genetic distance 2.491, standard deviation 0.766

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	144	122	68.5	0.471	30
2	119	128	73.8	0.505	32

Total extinctions: 0

Generation time: 15.908 sec (15.614 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-144

***** Running generation 145 *****

Population's average fitness: -42.19265 stdev: 67.69870

Best fitness: 78.55813 - size: (12, 57) - species 2 - id 33629

Average adjusted fitness: 0.489

Mean genetic distance 2.502, standard deviation 0.784

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	145	128	69.6	0.525	31
2	120	122	78.6	0.452	33

Total extinctions: 0

Generation time: 15.032 sec (15.423 average)

***** Running generation 146 *****

Population's average fitness: -37.57972 stdev: 71.52847

Best fitness: 80.34486 - size: (16, 69) - species 2 - id 33802

Average adjusted fitness: 0.466

Mean genetic distance 2.504, standard deviation 0.722

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	146	127	70.6	0.469	32
2	121	123	80.3	0.464	34

Total extinctions: 0

Generation time: 15.015 sec (15.310 average)

***** Running generation 147 *****

Population's average fitness: -35.04170 stdev: 71.07302

Best fitness: 82.94737 - size: (16, 71) - species 2 - id 34321

Average adjusted fitness: 0.481

Mean genetic distance 2.468, standard deviation 0.713

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====

1	147	129	67.8	0.501	33
2	122	121	82.9	0.461	35

Total extinctions: 0

Generation time: 15.893 sec (15.339 average)

***** Running generation 148 *****

Population's average fitness: -33.97448 stdev: 69.61733

Best fitness: 82.75348 - size: (16, 69) - species 2 - id 34455

Average adjusted fitness: 0.456

Mean genetic distance 2.441, standard deviation 0.826

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	148	134	71.5	0.505	34
2	123	116	82.8	0.408	36

Total extinctions: 0

Generation time: 15.715 sec (15.416 average)

***** Running generation 149 *****

Population's average fitness: -48.07266 stdev: 70.48189

Best fitness: 68.53585 - size: (17, 72) - species 2 - id 34754

Average adjusted fitness: 0.557

Mean genetic distance 2.493, standard deviation 0.816

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	149	128	60.6	0.547	35
2	124	122	68.5	0.568	37

Total extinctions: 0

Generation time: 14.230 sec (15.327 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-149

***** Running generation 150 *****

Population's average fitness: -39.54767 stdev: 71.96022

Best fitness: 120.57707 - size: (15, 79) - species 1 - id 34902

Average adjusted fitness: 0.487

Mean genetic distance 2.558, standard deviation 0.743

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	150	127	120.6	0.498	0
2	125	123	75.6	0.475	38

Total extinctions: 0

Generation time: 14.970 sec (15.150 average)

***** Running generation 151 *****

Population's average fitness: -42.93754 stdev: 69.87491

Best fitness: 111.42704 - size: (15, 79) - species 1 - id 34902

Average adjusted fitness: 0.495

Mean genetic distance 2.546, standard deviation 0.713

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	151	122	111.4	0.466	1
2	126	128	86.1	0.524	39

Total extinctions: 0
 Generation time: 14.767 sec (15.092 average)

***** Running generation 152 *****

Population's average fitness: -37.53300 stdev: 67.99027
 Best fitness: 129.28407 - size: (15, 79) - species 1 - id 34902
 Average adjusted fitness: 0.410
 Mean genetic distance 2.544, standard deviation 0.725
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	152	127	129.3	0.434	0
2	127	123	78.2	0.386	40

Total extinctions: 0
 Generation time: 15.504 sec (15.191 average)

***** Running generation 153 *****

Population's average fitness: -38.00668 stdev: 69.26914
 Best fitness: 115.34301 - size: (15, 79) - species 1 - id 34902
 Average adjusted fitness: 0.487
 Mean genetic distance 2.610, standard deviation 0.705
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	153	125	115.3	0.483	1
2	128	125	71.7	0.492	41

Total extinctions: 0
 Generation time: 15.415 sec (15.245 average)

***** Running generation 154 *****

Population's average fitness: -30.43132 stdev: 68.73997
 Best fitness: 116.31597 - size: (15, 79) - species 1 - id 34902
 Average adjusted fitness: 0.392
 Mean genetic distance 2.576, standard deviation 0.723
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	154	119	116.3	0.352	2
2	129	131	72.9	0.431	42

Total extinctions: 0
 Generation time: 16.214 sec (15.276 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-154

***** Running generation 155 *****

Population's average fitness: -45.22209 stdev: 70.17729
 Best fitness: 107.71134 - size: (13, 66) - species 1 - id 36085
 Average adjusted fitness: 0.446
 Mean genetic distance 2.516, standard deviation 0.689
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	155	125	107.7	0.467	3
2	130	125	70.1	0.426	43

Total extinctions: 0
 Generation time: 14.420 sec (15.214 average)

***** Running generation 156 *****

Population's average fitness: -38.47082 stdev: 69.80796
 Best fitness: 112.89259 - size: (13, 66) - species 1 - id 36085
 Average adjusted fitness: 0.489
 Mean genetic distance 2.509, standard deviation 0.641
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	156	124	112.9	0.485	4
2	131	126	77.7	0.493	44

Total extinctions: 0
 Generation time: 14.895 sec (15.202 average)

***** Running generation 157 *****

Population's average fitness: -44.66224 stdev: 70.98827
 Best fitness: 113.52409 - size: (15, 79) - species 1 - id 34902
 Average adjusted fitness: 0.417
 Mean genetic distance 2.513, standard deviation 0.662
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	157	121	113.5	0.391	5
2	132	129	74.2	0.443	45

Total extinctions: 0
 Generation time: 14.354 sec (15.048 average)

***** Running generation 158 *****

Population's average fitness: -43.20220 stdev: 67.84398
 Best fitness: 78.51710 - size: (13, 65) - species 1 - id 36760
 Average adjusted fitness: 0.506
 Mean genetic distance 2.524, standard deviation 0.739
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	158	122	78.5	0.499	6
2	133	128	72.5	0.514	46

Total extinctions: 0
 Generation time: 14.788 sec (14.956 average)

***** Running generation 159 *****

Population's average fitness: -38.60050 stdev: 69.99944
 Best fitness: 134.20255 - size: (13, 65) - species 1 - id 36760
 Average adjusted fitness: 0.437
 Mean genetic distance 2.493, standard deviation 0.833
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	159	126	134.2	0.454	0
2	134	124	74.7	0.419	47

Total extinctions: 0
 Generation time: 14.735 sec (15.006 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-159

***** Running generation 160 *****

Population's average fitness: -42.39874 stdev: 72.09496
 Best fitness: 134.28547 - size: (13, 65) - species 1 - id 36760
 Average adjusted fitness: 0.352
 Mean genetic distance 2.532, standard deviation 0.824
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	160	127	134.3	0.357	0
2	135	123	71.7	0.347	48

Total extinctions: 0
 Generation time: 14.557 sec (14.965 average)

***** Running generation 161 *****

Population's average fitness: -36.53492 stdev: 72.93988
 Best fitness: 133.32424 - size: (13, 65) - species 1 - id 36760
 Average adjusted fitness: 0.491
 Mean genetic distance 2.538, standard deviation 0.806
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	161	124	133.3	0.474	1
2	136	126	72.7	0.508	49

Total extinctions: 0
 Generation time: 14.810 sec (14.969 average)

***** Running generation 162 *****

Population's average fitness: -39.55382 stdev: 73.93001
 Best fitness: 133.72712 - size: (13, 68) - species 1 - id 37078
 Average adjusted fitness: 0.369
 Mean genetic distance 2.563, standard deviation 0.772
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	162	122	133.7	0.353	2
2	137	128	87.3	0.386	50

Total extinctions: 0
 Generation time: 14.320 sec (14.851 average)

***** Running generation 163 *****

Population's average fitness: -49.48896 stdev: 74.55106
 Best fitness: 140.54450 - size: (13, 71) - species 1 - id 37934
 Average adjusted fitness: 0.303
 Mean genetic distance 2.648, standard deviation 0.736
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	163	124	140.5	0.304	0
2	138	126	72.1	0.303	51

Total extinctions: 0
 Generation time: 12.807 sec (14.590 average)

***** Running generation 164 *****

Population's average fitness: -41.06246 stdev: 79.64194
 Best fitness: 151.72218 - size: (13, 71) - species 1 - id 38236
 Average adjusted fitness: 0.425

Mean genetic distance 2.654, standard deviation 0.711

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	164	122	151.7	0.407	0
2	139	128	76.1	0.442	52

Total extinctions: 0

Generation time: 14.499 sec (14.418 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-164

***** Running generation 165 *****

Population's average fitness: -39.54070 stdev: 81.88126

Best fitness: 147.33427 - size: (12, 58) - species 1 - id 38414

Average adjusted fitness: 0.423

Mean genetic distance 2.494, standard deviation 0.751

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	165	121	147.3	0.413	1
2	140	129	78.5	0.433	53

Total extinctions: 0

Generation time: 13.092 sec (14.286 average)

***** Running generation 166 *****

Population's average fitness: -37.17782 stdev: 83.13142

Best fitness: 159.60337 - size: (12, 58) - species 1 - id 38595

Average adjusted fitness: 0.333

Mean genetic distance 2.428, standard deviation 0.811

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	166	127	159.6	0.353	0
2	141	123	75.4	0.313	54

Total extinctions: 0

Generation time: 14.127 sec (14.209 average)

***** Running generation 167 *****

Population's average fitness: -39.06059 stdev: 81.50595

Best fitness: 157.96188 - size: (13, 71) - species 1 - id 38236

Average adjusted fitness: 0.364

Mean genetic distance 2.443, standard deviation 0.815

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	167	132	158.0	0.401	1
2	142	118	81.2	0.327	55

Total extinctions: 0

Generation time: 14.681 sec (14.241 average)

***** Running generation 168 *****

Population's average fitness: -38.27340 stdev: 88.26449

Best fitness: 184.43779 - size: (12, 58) - species 1 - id 38414

Average adjusted fitness: 0.384

Mean genetic distance 2.403, standard deviation 0.814

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	168	133	184.4	0.408	0
2	143	117	78.0	0.360	56

Total extinctions: 0

Generation time: 14.255 sec (14.188 average)

***** Running generation 169 *****

Population's average fitness: -24.58127 stdev: 91.82271

Best fitness: 183.00291 - size: (13, 67) - species 1 - id 39344

Average adjusted fitness: 0.426

Mean genetic distance 2.376, standard deviation 0.810

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	169	129	183.0	0.426	1
2	144	121	79.0	0.426	57

Total extinctions: 0

Generation time: 15.134 sec (14.228 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-169

***** Running generation 170 *****

Population's average fitness: -26.48126 stdev: 90.09207

Best fitness: 177.57173 - size: (13, 67) - species 1 - id 39344

Average adjusted fitness: 0.387

Mean genetic distance 2.386, standard deviation 0.830

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	170	133	177.6	0.425	2
2	145	117	81.8	0.348	58

Total extinctions: 0

Generation time: 15.598 sec (14.332 average)

***** Running generation 171 *****

Population's average fitness: -21.60475 stdev: 89.29927

Best fitness: 180.00610 - size: (12, 55) - species 1 - id 39748

Average adjusted fitness: 0.375

Mean genetic distance 2.515, standard deviation 0.791

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	171	137	180.0	0.421	3
2	146	113	78.6	0.329	59

Total extinctions: 0

Generation time: 15.943 sec (14.445 average)

***** Running generation 172 *****

Population's average fitness: -28.99555 stdev: 90.00979

Best fitness: 180.86944 - size: (13, 67) - species 1 - id 39344

Average adjusted fitness: 0.368

Mean genetic distance 2.529, standard deviation 0.783

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====

1	172	138	180.9	0.407	4
2	147	112	79.4	0.329	60

Total extinctions: 0

Generation time: 15.263 sec (14.540 average)

***** Running generation 173 *****

Population's average fitness: -17.37003 stdev: 91.85671

Best fitness: 194.33670 - size: (13, 67) - species 1 - id 40283

Average adjusted fitness: 0.370

Mean genetic distance 2.475, standard deviation 0.736

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	173	139	194.3	0.409	0
2	148	111	75.9	0.331	61

Total extinctions: 0

Generation time: 16.247 sec (14.884 average)

***** Running generation 174 *****

Population's average fitness: -21.48962 stdev: 96.35098

Best fitness: 200.42650 - size: (14, 67) - species 1 - id 40531

Average adjusted fitness: 0.327

Mean genetic distance 2.427, standard deviation 0.741

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	174	141	200.4	0.373	0
2	149	109	81.5	0.282	62

Total extinctions: 0

Generation time: 15.816 sec (15.016 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-174

***** Running generation 175 *****

Population's average fitness: -17.30617 stdev: 97.96782

Best fitness: 202.72406 - size: (14, 63) - species 1 - id 40027

Average adjusted fitness: 0.457

Mean genetic distance 2.364, standard deviation 0.740

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	175	138	202.7	0.494	0
2	150	112	75.8	0.420	63

Total extinctions: 0

Generation time: 16.106 sec (15.317 average)

***** Running generation 176 *****

Population's average fitness: -22.95992 stdev: 94.35756

Best fitness: 234.79236 - size: (14, 65) - species 1 - id 40429

Average adjusted fitness: 0.325

Mean genetic distance 2.465, standard deviation 0.718

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	176	136	234.8	0.348	0
2	151	114	81.5	0.302	64

Total extinctions: 0
 Generation time: 16.038 sec (15.508 average)

***** Running generation 177 *****

Population's average fitness: -14.01135 stdev: 100.19364
 Best fitness: 201.66908 - size: (13, 66) - species 1 - id 41181
 Average adjusted fitness: 0.414
 Mean genetic distance 2.577, standard deviation 0.726
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	177	138	201.7	0.465	1
2	152	112	84.6	0.363	65

Total extinctions: 0
 Generation time: 15.940 sec (15.634 average)

***** Running generation 178 *****

Population's average fitness: -11.12920 stdev: 100.44547
 Best fitness: 211.30801 - size: (13, 66) - species 1 - id 41181
 Average adjusted fitness: 0.338
 Mean genetic distance 2.565, standard deviation 0.786
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	178	150	211.3	0.436	2
2	153	100	81.5	0.241	66

Total extinctions: 0
 Generation time: 16.651 sec (15.874 average)

***** Running generation 179 *****

Population's average fitness: -5.55228 stdev: 95.39286
 Best fitness: 212.87253 - size: (13, 66) - species 1 - id 41181
 Average adjusted fitness: 0.363
 Mean genetic distance 2.541, standard deviation 0.755
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	179	147	212.9	0.415	3
2	154	103	83.3	0.310	67

Total extinctions: 0
 Generation time: 18.217 sec (16.182 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-179

***** Running generation 180 *****

Population's average fitness: -17.37265 stdev: 95.94535
 Best fitness: 199.91710 - size: (13, 60) - species 1 - id 41635
 Average adjusted fitness: 0.331
 Mean genetic distance 2.532, standard deviation 0.686
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	180	151	199.9	0.412	4
2	155	99	84.1	0.250	68

Total extinctions: 0
 Generation time: 16.082 sec (16.230 average)

***** Running generation 181 *****

Population's average fitness: -9.72814 stdev: 93.50878
 Best fitness: 206.33580 - size: (13, 64) - species 1 - id 42025
 Average adjusted fitness: 0.357
 Mean genetic distance 2.538, standard deviation 0.671
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	181	142	206.3	0.382	5
2	156	108	83.9	0.331	69

Total extinctions: 0
 Generation time: 17.405 sec (16.376 average)

***** Running generation 182 *****

Population's average fitness: -26.46370 stdev: 89.97746
 Best fitness: 218.78867 - size: (13, 64) - species 1 - id 41420
 Average adjusted fitness: 0.445
 Mean genetic distance 2.552, standard deviation 0.686
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	182	136	218.8	0.461	6
2	157	114	80.1	0.429	70

Total extinctions: 0
 Generation time: 15.314 sec (16.382 average)

***** Running generation 183 *****

Population's average fitness: -7.62703 stdev: 94.18942
 Best fitness: 215.18746 - size: (12, 60) - species 1 - id 42338
 Average adjusted fitness: 0.348
 Mean genetic distance 2.525, standard deviation 0.695
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	183	142	215.2	0.410	7
2	158	108	78.4	0.285	71

Total extinctions: 0
 Generation time: 16.713 sec (16.428 average)

***** Running generation 184 *****

Population's average fitness: -19.78447 stdev: 97.49806
 Best fitness: 222.52311 - size: (14, 69) - species 1 - id 42781
 Average adjusted fitness: 0.350
 Mean genetic distance 2.435, standard deviation 0.706
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	184	140	222.5	0.387	8
2	159	110	77.8	0.312	72

Total extinctions: 0
 Generation time: 15.798 sec (16.426 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-184

***** Running generation 185 *****

Population's average fitness: -15.54944 stdev: 98.22458
 Best fitness: 207.96655 - size: (13, 64) - species 1 - id 43002
 Average adjusted fitness: 0.421
 Mean genetic distance 2.402, standard deviation 0.756
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	185	141	208.0	0.475	9
2	160	109	85.1	0.368	73

Total extinctions: 0
 Generation time: 15.854 sec (16.401 average)

***** Running generation 186 *****

Population's average fitness: -28.72161 stdev: 91.56405
 Best fitness: 228.26898 - size: (14, 68) - species 1 - id 43216
 Average adjusted fitness: 0.379
 Mean genetic distance 2.358, standard deviation 0.752
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	186	138	228.3	0.409	10
2	161	112	84.8	0.350	74

Total extinctions: 0
 Generation time: 15.375 sec (16.335 average)

***** Running generation 187 *****

Population's average fitness: -15.53510 stdev: 91.53635
 Best fitness: 205.39665 - size: (14, 68) - species 1 - id 43216
 Average adjusted fitness: 0.346
 Mean genetic distance 2.465, standard deviation 0.761
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	187	139	205.4	0.390	11
2	162	111	74.8	0.302	75

Total extinctions: 0
 Generation time: 16.222 sec (16.363 average)

***** Running generation 188 *****

Population's average fitness: -19.50548 stdev: 95.48555
 Best fitness: 215.87807 - size: (14, 68) - species 1 - id 43216
 Average adjusted fitness: 0.319
 Mean genetic distance 2.461, standard deviation 0.785
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	188	142	215.9	0.370	12
2	163	108	79.5	0.267	76

Total extinctions: 0
 Generation time: 16.247 sec (16.323 average)

***** Running generation 189 *****

Population's average fitness: -17.98735 stdev: 96.72865
 Best fitness: 235.49833 - size: (13, 54) - species 1 - id 43937
 Average adjusted fitness: 0.302

Mean genetic distance 2.528, standard deviation 0.708

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	189	143	235.5	0.343	0
2	164	107	77.3	0.260	77

Total extinctions: 0

Generation time: 16.049 sec (16.106 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-189

***** Running generation 190 *****

Population's average fitness: -21.94653 stdev: 97.38194

Best fitness: 208.58140 - size: (14, 61) - species 1 - id 44127

Average adjusted fitness: 0.345

Mean genetic distance 2.467, standard deviation 0.665

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	190	146	208.6	0.408	1
2	165	104	77.5	0.281	78

Total extinctions: 0

Generation time: 15.172 sec (16.015 average)

***** Running generation 191 *****

Population's average fitness: -21.56968 stdev: 94.28528

Best fitness: 217.45658 - size: (14, 61) - species 1 - id 44127

Average adjusted fitness: 0.340

Mean genetic distance 2.441, standard deviation 0.676

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	191	142	217.5	0.373	2
2	166	108	74.8	0.307	79

Total extinctions: 0

Generation time: 16.374 sec (15.912 average)

***** Running generation 192 *****

Population's average fitness: -17.05150 stdev: 100.10974

Best fitness: 214.26325 - size: (14, 61) - species 1 - id 44127

Average adjusted fitness: 0.369

Mean genetic distance 2.491, standard deviation 0.658

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	192	146	214.3	0.440	3
2	167	104	77.5	0.298	80

Total extinctions: 0

Generation time: 15.733 sec (15.954 average)

***** Running generation 193 *****

Population's average fitness: -26.43578 stdev: 98.41710

Best fitness: 246.25630 - size: (11, 57) - species 1 - id 43425

Average adjusted fitness: 0.318

Mean genetic distance 2.507, standard deviation 0.699

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	193	141	246.3	0.346	0
2	168	109	78.0	0.291	81

Total extinctions: 0

Generation time: 15.146 sec (15.797 average)

***** Running generation 194 *****

Population's average fitness: -22.08639 stdev: 91.73824

Best fitness: 214.73407 - size: (12, 62) - species 1 - id 45065

Average adjusted fitness: 0.341

Mean genetic distance 2.552, standard deviation 0.740

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	194	139	214.7	0.371	1
2	169	111	74.0	0.310	82

Total extinctions: 0

Generation time: 15.867 sec (15.804 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-194

***** Running generation 195 *****

Population's average fitness: -17.44226 stdev: 101.08690

Best fitness: 207.55982 - size: (11, 57) - species 1 - id 43425

Average adjusted fitness: 0.414

Mean genetic distance 2.535, standard deviation 0.721

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	195	136	207.6	0.442	2
2	170	114	79.3	0.385	83

Total extinctions: 0

Generation time: 15.392 sec (15.758 average)

***** Running generation 196 *****

Population's average fitness: -29.06803 stdev: 96.77909

Best fitness: 228.71625 - size: (15, 63) - species 1 - id 45272

Average adjusted fitness: 0.410

Mean genetic distance 2.536, standard deviation 0.711

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	196	135	228.7	0.438	3
2	171	115	79.2	0.382	84

Total extinctions: 0

Generation time: 14.958 sec (15.716 average)

***** Running generation 197 *****

Population's average fitness: -27.02275 stdev: 92.53776

Best fitness: 210.22442 - size: (11, 55) - species 1 - id 45754

Average adjusted fitness: 0.375

Mean genetic distance 2.545, standard deviation 0.752

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====

1	197	136	210.2	0.412	4
2	172	114	80.1	0.337	85

Total extinctions: 0

Generation time: 16.402 sec (15.734 average)

***** Running generation 198 *****

Population's average fitness: -20.88805 stdev: 95.33346

Best fitness: 205.93656 - size: (11, 58) - species 1 - id 46029

Average adjusted fitness: 0.379

Mean genetic distance 2.589, standard deviation 0.733

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	198	137	205.9	0.413	5
2	173	113	80.6	0.344	86

Total extinctions: 0

Generation time: 15.708 sec (15.680 average)

***** Running generation 199 *****

Population's average fitness: -24.53979 stdev: 96.62226

Best fitness: 218.95851 - size: (10, 54) - species 1 - id 46241

Average adjusted fitness: 0.415

Mean genetic distance 2.618, standard deviation 0.698

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	199	136	219.0	0.450	6
2	174	114	80.2	0.380	87

Total extinctions: 0

Generation time: 16.128 sec (15.688 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-199

***** Running generation 200 *****

Population's average fitness: -24.86251 stdev: 92.38135

Best fitness: 218.04677 - size: (10, 54) - species 1 - id 46241

Average adjusted fitness: 0.320

Mean genetic distance 2.636, standard deviation 0.676

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	200	135	218.0	0.342	7
2	175	115	82.0	0.297	88

Total extinctions: 0

Generation time: 14.915 sec (15.662 average)

***** Running generation 201 *****

Population's average fitness: -23.01425 stdev: 96.41028

Best fitness: 249.94181 - size: (12, 59) - species 1 - id 46289

Average adjusted fitness: 0.350

Mean genetic distance 2.623, standard deviation 0.669

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	201	139	249.9	0.399	0
2	176	111	79.1	0.301	89

Total extinctions: 0
 Generation time: 15.541 sec (15.579 average)

***** Running generation 202 *****

Population's average fitness: -22.66871 stdev: 94.73144
 Best fitness: 213.50964 - size: (10, 54) - species 1 - id 46241
 Average adjusted fitness: 0.341
 Mean genetic distance 2.592, standard deviation 0.684
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	202	142	213.5	0.395	1
2	177	108	78.0	0.288	90

Total extinctions: 0
 Generation time: 15.691 sec (15.575 average)

***** Running generation 203 *****

Population's average fitness: -11.18988 stdev: 98.55477
 Best fitness: 216.93650 - size: (11, 54) - species 1 - id 47111
 Average adjusted fitness: 0.344
 Mean genetic distance 2.640, standard deviation 0.644
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	203	141	216.9	0.390	2
2	178	109	85.7	0.298	91

Total extinctions: 0
 Generation time: 16.120 sec (15.672 average)

***** Running generation 204 *****

Population's average fitness: -27.68972 stdev: 93.49036
 Best fitness: 208.33444 - size: (11, 54) - species 1 - id 46922
 Average adjusted fitness: 0.369
 Mean genetic distance 2.583, standard deviation 0.673
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	204	140	208.3	0.411	3
2	179	110	79.1	0.327	92

Total extinctions: 0
 Generation time: 15.199 sec (15.605 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-204

***** Running generation 205 *****

Population's average fitness: -15.17173 stdev: 101.37015
 Best fitness: 237.53397 - size: (11, 54) - species 1 - id 47111
 Average adjusted fitness: 0.358
 Mean genetic distance 2.526, standard deviation 0.703
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	205	142	237.5	0.412	4
2	180	108	86.6	0.303	93

Total extinctions: 0
 Generation time: 16.062 sec (15.672 average)

***** Running generation 206 *****

Population's average fitness: -9.37629 stdev: 98.54317
 Best fitness: 207.56076 - size: (12, 55) - species 1 - id 47786
 Average adjusted fitness: 0.354
 Mean genetic distance 2.555, standard deviation 0.641
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	206	145	207.6	0.417	5
2	181	105	77.9	0.291	94

Total extinctions: 0
 Generation time: 16.527 sec (15.829 average)

***** Running generation 207 *****

Population's average fitness: -14.14924 stdev: 102.07449
 Best fitness: 242.08906 - size: (12, 53) - species 1 - id 48070
 Average adjusted fitness: 0.391
 Mean genetic distance 2.488, standard deviation 0.673
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	207	144	242.1	0.447	6
2	182	106	77.1	0.335	95

Total extinctions: 0
 Generation time: 15.564 sec (15.745 average)

***** Running generation 208 *****

Population's average fitness: -7.65410 stdev: 96.64178
 Best fitness: 208.11453 - size: (10, 54) - species 1 - id 48084
 Average adjusted fitness: 0.364
 Mean genetic distance 2.443, standard deviation 0.712
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	208	139	208.1	0.387	7
2	183	111	82.9	0.340	96

Total extinctions: 0
 Generation time: 16.830 sec (15.858 average)

***** Running generation 209 *****

Population's average fitness: -8.90091 stdev: 98.61739
 Best fitness: 234.93108 - size: (11, 54) - species 1 - id 47111
 Average adjusted fitness: 0.364
 Mean genetic distance 2.414, standard deviation 0.748
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	209	137	234.9	0.391	8
2	184	113	84.8	0.337	97

Total extinctions: 0
 Generation time: 16.770 sec (15.922 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-209

***** Running generation 210 *****

Population's average fitness: -15.99065 stdev: 99.98386
 Best fitness: 215.83108 - size: (11, 51) - species 1 - id 48589
 Average adjusted fitness: 0.333
 Mean genetic distance 2.439, standard deviation 0.748
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	210	144	215.8	0.403	9
2	185	106	79.6	0.264	98

Total extinctions: 0
 Generation time: 15.406 sec (15.971 average)

***** Running generation 211 *****

Population's average fitness: -7.24426 stdev: 101.05281
 Best fitness: 209.59551 - size: (11, 52) - species 1 - id 49033
 Average adjusted fitness: 0.407
 Mean genetic distance 2.422, standard deviation 0.678
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	211	143	209.6	0.465	10
2	186	107	78.8	0.349	99

Total extinctions: 0
 Generation time: 16.544 sec (16.071 average)

***** Running generation 212 *****

Population's average fitness: -13.55479 stdev: 99.42594
 Best fitness: 232.33115 - size: (10, 49) - species 1 - id 49217
 Average adjusted fitness: 0.438
 Mean genetic distance 2.419, standard deviation 0.593
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	212	144	232.3	0.502	11
2	187	106	81.2	0.375	100

Total extinctions: 0
 Generation time: 16.048 sec (16.107 average)

***** Running generation 213 *****

Population's average fitness: -8.82673 stdev: 106.63786
 Best fitness: 228.42868 - size: (12, 53) - species 1 - id 48070
 Average adjusted fitness: 0.409
 Mean genetic distance 2.512, standard deviation 0.592
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	213	146	228.4	0.483	12
2	188	104	110.6	0.334	0

Total extinctions: 0
 Generation time: 15.533 sec (16.048 average)

***** Running generation 214 *****

Population's average fitness: -9.95932 stdev: 103.43401
 Best fitness: 222.58213 - size: (11, 51) - species 1 - id 49709
 Average adjusted fitness: 0.374

Mean genetic distance 2.573, standard deviation 0.662

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	214	148	222.6	0.451	13
2	189	102	81.2	0.297	1

Total extinctions: 0

Generation time: 15.934 sec (16.122 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-214

***** Running generation 215 *****

Population's average fitness: -13.21249 stdev: 103.34886

Best fitness: 245.30150 - size: (10, 49) - species 1 - id 49926

Average adjusted fitness: 0.301

Mean genetic distance 2.607, standard deviation 0.688

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	215	144	245.3	0.337	14
2	190	106	75.2	0.266	2

Total extinctions: 0

Generation time: 15.619 sec (16.078 average)

***** Running generation 216 *****

Population's average fitness: -8.98747 stdev: 100.79203

Best fitness: 210.38438 - size: (11, 51) - species 1 - id 50181

Average adjusted fitness: 0.361

Mean genetic distance 2.623, standard deviation 0.698

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	216	142	210.4	0.403	15
2	191	108	84.0	0.319	3

Total extinctions: 0

Generation time: 15.779 sec (16.003 average)

***** Running generation 217 *****

Population's average fitness: -8.42719 stdev: 99.81873

Best fitness: 224.21513 - size: (10, 50) - species 1 - id 49438

Average adjusted fitness: 0.381

Mean genetic distance 2.613, standard deviation 0.672

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	217	143	224.2	0.440	16
2	192	107	80.9	0.321	4

Total extinctions: 0

Generation time: 16.328 sec (16.079 average)

***** Running generation 218 *****

Population's average fitness: -13.87340 stdev: 105.84636

Best fitness: 247.21298 - size: (11, 51) - species 1 - id 50181

Average adjusted fitness: 0.374

Mean genetic distance 2.634, standard deviation 0.584

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	218	144	247.2	0.436	17
2	193	106	81.8	0.312	5

Total extinctions: 0

Generation time: 15.323 sec (15.928 average)

***** Running generation 219 *****

Population's average fitness: 3.28910 stdev: 109.45559

Best fitness: 236.67400 - size: (10, 47) - species 1 - id 50763

Average adjusted fitness: 0.411

Mean genetic distance 2.422, standard deviation 0.641

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	219	147	236.7	0.494	18
2	194	103	78.6	0.328	6

Total extinctions: 0

Generation time: 16.393 sec (15.891 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-219

***** Running generation 220 *****

Population's average fitness: -23.30757 stdev: 98.24959

Best fitness: 220.34152 - size: (11, 53) - species 1 - id 49960

Average adjusted fitness: 0.328

Mean genetic distance 2.374, standard deviation 0.691

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	220	148	220.3	0.391	19
2	195	102	80.7	0.266	7

Total extinctions: 0

Generation time: 16.148 sec (15.965 average)

***** Running generation 221 *****

Population's average fitness: -20.50815 stdev: 104.10010

Best fitness: 238.25837 - size: (11, 50) - species 1 - id 51100

Average adjusted fitness: 0.378

Mean genetic distance 2.439, standard deviation 0.738

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	221	144	238.3	0.426	20
2	196	106	77.0	0.330	8

Total extinctions: 0

Generation time: 15.167 sec (15.827 average)

***** Running generation 222 *****

Population's average fitness: -14.62534 stdev: 99.79708

Best fitness: 237.47750 - size: (10, 50) - species 1 - id 49438

Average adjusted fitness: 0.415

Mean genetic distance 2.421, standard deviation 0.772

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====

1	222	140	237.5	0.454	21
2	197	110	73.6	0.376	9

Total extinctions: 0

Generation time: 15.922 sec (15.815 average)

***** Running generation 223 *****

Population's average fitness: -15.13893 stdev: 100.45717

Best fitness: 211.89021 - size: (11, 50) - species 1 - id 50542

Average adjusted fitness: 0.392

Mean genetic distance 2.370, standard deviation 0.790

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	223	142	211.9	0.453	22
2	198	108	74.4	0.332	10

Total extinctions: 0

Generation time: 15.582 sec (15.820 average)

***** Running generation 224 *****

Population's average fitness: -9.29522 stdev: 96.29993

Best fitness: 224.99700 - size: (10, 48) - species 1 - id 51524

Average adjusted fitness: 0.415

Mean genetic distance 2.449, standard deviation 0.741

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	224	139	225.0	0.449	23
2	199	111	82.7	0.382	11

Total extinctions: 0

Generation time: 15.987 sec (15.825 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-224

***** Running generation 225 *****

Population's average fitness: -6.89226 stdev: 98.50080

Best fitness: 207.88620 - size: (9, 49) - species 1 - id 52260

Average adjusted fitness: 0.346

Mean genetic distance 2.459, standard deviation 0.677

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	225	145	207.9	0.420	24
2	200	105	85.8	0.272	12

Total extinctions: 0

Generation time: 16.111 sec (15.874 average)

***** Running generation 226 *****

Population's average fitness: -6.64853 stdev: 101.89316

Best fitness: 236.88639 - size: (10, 49) - species 1 - id 52163

Average adjusted fitness: 0.450

Mean genetic distance 2.477, standard deviation 0.637

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	226	143	236.9	0.512	25
2	201	107	80.5	0.389	13

Total extinctions: 0
 Generation time: 16.255 sec (15.922 average)

***** Running generation 227 *****

Population's average fitness: -12.22004 stdev: 105.54861
 Best fitness: 218.21688 - size: (10, 49) - species 1 - id 52163
 Average adjusted fitness: 0.417
 Mean genetic distance 2.536, standard deviation 0.672
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	227	144	218.2	0.485	26
2	202	106	75.9	0.349	14

Total extinctions: 0
 Generation time: 15.990 sec (15.888 average)

***** Running generation 228 *****

Population's average fitness: -12.89566 stdev: 101.39993
 Best fitness: 211.00209 - size: (12, 54) - species 1 - id 52650
 Average adjusted fitness: 0.419
 Mean genetic distance 2.550, standard deviation 0.715
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	228	141	211.0	0.464	27
2	203	109	83.7	0.374	15

Total extinctions: 0
 Generation time: 16.441 sec (16.000 average)

***** Running generation 229 *****

Population's average fitness: -13.99604 stdev: 98.55548
 Best fitness: 221.75713 - size: (11, 50) - species 1 - id 52219
 Average adjusted fitness: 0.409
 Mean genetic distance 2.457, standard deviation 0.751
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	229	138	221.8	0.442	28
2	204	112	78.9	0.376	16

Total extinctions: 0
 Generation time: 16.079 sec (15.968 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-229

***** Running generation 230 *****

Population's average fitness: -13.91081 stdev: 97.65407
 Best fitness: 228.10246 - size: (11, 49) - species 1 - id 53340
 Average adjusted fitness: 0.416
 Mean genetic distance 2.481, standard deviation 0.720
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	230	136	228.1	0.446	29
2	205	114	83.6	0.386	17

Total extinctions: 0
 Generation time: 16.281 sec (15.981 average)

***** Running generation 231 *****

Population's average fitness: -16.92193 stdev: 97.87485
 Best fitness: 216.35789 - size: (12, 52) - species 1 - id 53572
 Average adjusted fitness: 0.376
 Mean genetic distance 2.540, standard deviation 0.683
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	231	139	216.4	0.428	30
2	206	111	82.2	0.324	18

Total extinctions: 0
 Generation time: 15.932 sec (16.058 average)

***** Running generation 232 *****

Population's average fitness: -11.41946 stdev: 104.85469
 Best fitness: 232.46085 - size: (12, 52) - species 1 - id 53572
 Average adjusted fitness: 0.357
 Mean genetic distance 2.604, standard deviation 0.680
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	232	144	232.5	0.427	31
2	207	106	80.2	0.287	19

Total extinctions: 0
 Generation time: 15.623 sec (16.028 average)

***** Running generation 233 *****

Population's average fitness: -21.27221 stdev: 100.75106
 Best fitness: 230.53250 - size: (12, 49) - species 1 - id 53314
 Average adjusted fitness: 0.324
 Mean genetic distance 2.607, standard deviation 0.688
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	233	148	230.5	0.394	32
2	208	102	75.5	0.255	20

Total extinctions: 0
 Generation time: 15.379 sec (16.008 average)

***** Running generation 234 *****

Population's average fitness: -20.21283 stdev: 95.76686
 Best fitness: 241.27482 - size: (12, 52) - species 1 - id 54287
 Average adjusted fitness: 0.400
 Mean genetic distance 2.575, standard deviation 0.663
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	234	136	241.3	0.399	33
2	209	114	81.5	0.402	21

Total extinctions: 0
 Generation time: 15.485 sec (15.958 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-234

***** Running generation 235 *****

Population's average fitness: -13.48433 stdev: 98.60893
 Best fitness: 219.78392 - size: (11, 50) - species 1 - id 53759
 Average adjusted fitness: 0.441
 Mean genetic distance 2.581, standard deviation 0.611
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	235	135	219.8	0.471	34
2	210	115	78.4	0.411	22

Total extinctions: 0
 Generation time: 17.028 sec (16.049 average)

***** Running generation 236 *****

Population's average fitness: -8.08138 stdev: 106.36136
 Best fitness: 238.42191 - size: (12, 52) - species 1 - id 54287
 Average adjusted fitness: 0.410
 Mean genetic distance 2.549, standard deviation 0.632
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	236	141	238.4	0.481	35
2	211	109	90.3	0.339	23

Total extinctions: 0
 Generation time: 15.977 sec (16.021 average)

***** Running generation 237 *****

Population's average fitness: -17.70990 stdev: 99.45637
 Best fitness: 242.59969 - size: (12, 52) - species 1 - id 54287
 Average adjusted fitness: 0.418
 Mean genetic distance 2.535, standard deviation 0.635
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	237	137	242.6	0.446	36
2	212	113	90.2	0.390	24

Total extinctions: 0
 Generation time: 16.230 sec (16.046 average)

***** Running generation 238 *****

Population's average fitness: -24.66548 stdev: 101.62363
 Best fitness: 234.83560 - size: (12, 52) - species 1 - id 54287
 Average adjusted fitness: 0.396
 Mean genetic distance 2.533, standard deviation 0.699
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	238	136	234.8	0.425	37
2	213	114	77.7	0.367	25

Total extinctions: 0
 Generation time: 15.446 sec (15.946 average)

***** Running generation 239 *****

Population's average fitness: -15.34604 stdev: 102.41053
 Best fitness: 209.63668 - size: (12, 51) - species 1 - id 55383
 Average adjusted fitness: 0.413

Mean genetic distance 2.533, standard deviation 0.651

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	239	140	209.6	0.474	38
2	214	110	73.4	0.351	26

Total extinctions: 0

Generation time: 15.080 sec (15.846 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-239

***** Running generation 240 *****

Population's average fitness: -9.18281 stdev: 97.92822

Best fitness: 212.00681 - size: (11, 49) - species 1 - id 55718

Average adjusted fitness: 0.436

Mean genetic distance 2.587, standard deviation 0.585

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	240	138	212.0	0.469	39
2	215	112	73.0	0.404	27

Total extinctions: 0

Generation time: 16.147 sec (15.833 average)

***** Running generation 241 *****

Population's average fitness: -21.71125 stdev: 97.32166

Best fitness: 214.38013 - size: (11, 53) - species 1 - id 55846

Average adjusted fitness: 0.376

Mean genetic distance 2.599, standard deviation 0.600

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	241	137	214.4	0.412	40
2	216	113	79.6	0.340	28

Total extinctions: 0

Generation time: 15.455 sec (15.785 average)

***** Running generation 242 *****

Population's average fitness: -28.88880 stdev: 98.29830

Best fitness: 225.42918 - size: (12, 55) - species 1 - id 56060

Average adjusted fitness: 0.348

Mean genetic distance 2.625, standard deviation 0.637

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	242	139	225.4	0.392	41
2	217	111	80.7	0.304	29

Total extinctions: 0

Generation time: 14.101 sec (15.633 average)

***** Running generation 243 *****

Population's average fitness: -18.54580 stdev: 99.03012

Best fitness: 229.02869 - size: (12, 55) - species 1 - id 56060

Average adjusted fitness: 0.312

Mean genetic distance 2.621, standard deviation 0.630

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	243	141	229.0	0.354	42
2	218	109	80.6	0.269	30

Total extinctions: 0

Generation time: 15.530 sec (15.648 average)

***** Running generation 244 *****

Population's average fitness: -9.90099 stdev: 98.72354

Best fitness: 223.45572 - size: (12, 52) - species 1 - id 56580

Average adjusted fitness: 0.423

Mean genetic distance 2.579, standard deviation 0.660

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	244	140	223.5	0.470	43
2	219	110	76.4	0.376	31

Total extinctions: 0

Generation time: 16.373 sec (15.737 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-244

***** Running generation 245 *****

Population's average fitness: -9.43747 stdev: 102.98048

Best fitness: 227.18613 - size: (11, 49) - species 1 - id 56862

Average adjusted fitness: 0.360

Mean genetic distance 2.626, standard deviation 0.659

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	245	141	227.2	0.407	44
2	220	109	79.9	0.313	32

Total extinctions: 0

Generation time: 16.840 sec (15.718 average)

***** Running generation 246 *****

Population's average fitness: -15.49261 stdev: 97.58882

Best fitness: 208.03997 - size: (11, 45) - species 1 - id 57022

Average adjusted fitness: 0.388

Mean genetic distance 2.682, standard deviation 0.667

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	246	140	208.0	0.434	45
2	221	110	84.1	0.342	33

Total extinctions: 0

Generation time: 15.464 sec (15.667 average)

***** Running generation 247 *****

Population's average fitness: -17.46643 stdev: 97.15922

Best fitness: 218.64207 - size: (12, 46) - species 1 - id 56520

Average adjusted fitness: 0.405

Mean genetic distance 2.607, standard deviation 0.697

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====

1	247	136	218.6	0.426	46
2	222	114	88.7	0.385	34

Total extinctions: 0

Generation time: 15.080 sec (15.552 average)

***** Running generation 248 *****

Population's average fitness: -19.90678 stdev: 100.25700

Best fitness: 226.40625 - size: (12, 54) - species 1 - id 57556

Average adjusted fitness: 0.451

Mean genetic distance 2.621, standard deviation 0.683

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	248	135	226.4	0.490	47
2	223	115	78.9	0.411	35

Total extinctions: 0

Generation time: 15.578 sec (15.565 average)

***** Running generation 249 *****

Population's average fitness: -17.91570 stdev: 102.02285

Best fitness: 230.84575 - size: (11, 45) - species 1 - id 57022

Average adjusted fitness: 0.367

Mean genetic distance 2.596, standard deviation 0.665

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	249	139	230.8	0.417	48
2	224	111	79.1	0.318	36

Total extinctions: 0

Generation time: 15.139 sec (15.571 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-249

***** Running generation 250 *****

Population's average fitness: -25.17956 stdev: 99.43364

Best fitness: 218.29009 - size: (12, 48) - species 1 - id 57992

Average adjusted fitness: 0.387

Mean genetic distance 2.516, standard deviation 0.718

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	250	140	218.3	0.431	49
2	225	110	81.1	0.343	37

Total extinctions: 0

Generation time: 14.859 sec (15.442 average)

***** Running generation 251 *****

Population's average fitness: -23.04700 stdev: 96.23897

Best fitness: 243.33310 - size: (10, 42) - species 1 - id 58226

Average adjusted fitness: 0.386

Mean genetic distance 2.533, standard deviation 0.709

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	251	139	243.3	0.424	50
2	226	111	77.4	0.348	38

Total extinctions: 0
 Generation time: 15.130 sec (15.409 average)

***** Running generation 252 *****

Population's average fitness: -20.42660 stdev: 99.91868
 Best fitness: 219.31746 - size: (8, 50) - species 1 - id 58224
 Average adjusted fitness: 0.402
 Mean genetic distance 2.468, standard deviation 0.771
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	252	136	219.3	0.425	51
2	227	114	82.4	0.379	39

Total extinctions: 0
 Generation time: 15.840 sec (15.583 average)

***** Running generation 253 *****

Population's average fitness: -18.64546 stdev: 97.97136
 Best fitness: 222.44279 - size: (11, 49) - species 1 - id 58472
 Average adjusted fitness: 0.405
 Mean genetic distance 2.506, standard deviation 0.750
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	253	137	222.4	0.450	52
2	228	113	82.2	0.360	40

Total extinctions: 0
 Generation time: 14.766 sec (15.507 average)

***** Running generation 254 *****

Population's average fitness: -20.07026 stdev: 94.36115
 Best fitness: 210.95220 - size: (12, 45) - species 1 - id 58411
 Average adjusted fitness: 0.407
 Mean genetic distance 2.563, standard deviation 0.714
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	254	134	211.0	0.427	53
2	229	116	79.2	0.388	41

Total extinctions: 0
 Generation time: 15.559 sec (15.426 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-254

***** Running generation 255 *****

Population's average fitness: -16.81361 stdev: 98.07357
 Best fitness: 223.17511 - size: (10, 42) - species 1 - id 58226
 Average adjusted fitness: 0.489
 Mean genetic distance 2.520, standard deviation 0.686
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	255	133	223.2	0.518	54
2	230	117	81.1	0.461	42

Total extinctions: 0
 Generation time: 15.709 sec (15.312 average)

***** Running generation 256 *****

Population's average fitness: -29.36816 stdev: 93.63309
 Best fitness: 212.42268 - size: (11, 48) - species 1 - id 57707
 Average adjusted fitness: 0.384
 Mean genetic distance 2.462, standard deviation 0.669
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	256	132	212.4	0.402	55
2	231	118	86.4	0.365	43

Total extinctions: 0
 Generation time: 14.040 sec (15.170 average)

***** Running generation 257 *****

Population's average fitness: -18.95243 stdev: 98.56154
 Best fitness: 212.67325 - size: (11, 43) - species 1 - id 59629
 Average adjusted fitness: 0.403
 Mean genetic distance 2.489, standard deviation 0.712
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	257	137	212.7	0.455	56
2	232	113	84.8	0.350	44

Total extinctions: 0
 Generation time: 14.296 sec (15.092 average)

***** Running generation 258 *****

Population's average fitness: -21.15695 stdev: 100.03840
 Best fitness: 228.11600 - size: (10, 39) - species 1 - id 59854
 Average adjusted fitness: 0.408
 Mean genetic distance 2.384, standard deviation 0.802
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	258	138	228.1	0.453	57
2	233	112	77.0	0.364	45

Total extinctions: 0
 Generation time: 14.414 sec (14.975 average)

***** Running generation 259 *****

Population's average fitness: -7.83383 stdev: 104.10280
 Best fitness: 229.03141 - size: (10, 41) - species 1 - id 60005
 Average adjusted fitness: 0.416
 Mean genetic distance 2.442, standard deviation 0.750
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	259	139	229.0	0.464	58
2	234	111	85.9	0.367	46

Total extinctions: 0
 Generation time: 15.088 sec (14.970 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-259

***** Running generation 260 *****

Population's average fitness: -19.75788 stdev: 99.36412
 Best fitness: 207.78112 - size: (10, 43) - species 1 - id 59972
 Average adjusted fitness: 0.411
 Mean genetic distance 2.496, standard deviation 0.757
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	260	137	207.8	0.445	59
2	235	113	79.1	0.377	47

Total extinctions: 0
 Generation time: 15.050 sec (14.989 average)

***** Running generation 261 *****

Population's average fitness: -22.40969 stdev: 95.02924
 Best fitness: 234.32226 - size: (12, 45) - species 1 - id 58411
 Average adjusted fitness: 0.327
 Mean genetic distance 2.489, standard deviation 0.727
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	261	133	234.3	0.338	60
2	236	117	75.5	0.317	48

Total extinctions: 0
 Generation time: 14.529 sec (14.929 average)

***** Running generation 262 *****

Population's average fitness: -4.87856 stdev: 101.23576
 Best fitness: 227.78796 - size: (14, 54) - species 1 - id 60226
 Average adjusted fitness: 0.414
 Mean genetic distance 2.403, standard deviation 0.749
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	262	136	227.8	0.458	61
2	237	114	81.2	0.370	49

Total extinctions: 0
 Generation time: 15.812 sec (14.926 average)

***** Running generation 263 *****

Population's average fitness: -20.42518 stdev: 91.43957
 Best fitness: 202.47031 - size: (11, 45) - species 1 - id 60737
 Average adjusted fitness: 0.365
 Mean genetic distance 2.426, standard deviation 0.730
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	263	127	202.5	0.347	62
2	238	123	78.4	0.384	50

Total extinctions: 0
 Generation time: 15.495 sec (14.999 average)

***** Running generation 264 *****

Population's average fitness: -21.16601 stdev: 92.38356
 Best fitness: 209.61196 - size: (9, 41) - species 1 - id 61161
 Average adjusted fitness: 0.443

Mean genetic distance 2.426, standard deviation 0.681

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	264	130	209.6	0.471	63
2	239	120	82.5	0.415	51

Total extinctions: 0

Generation time: 15.056 sec (14.949 average)

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walker_Run1\neat-checkpoint-264

***** Running generation 265 *****

Population's average fitness: -20.04628 stdev: 93.76999

Best fitness: 219.88826 - size: (10, 44) - species 1 - id 61451

Average adjusted fitness: 0.380

Mean genetic distance 2.457, standard deviation 0.703

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	265	128	219.9	0.383	64
2	240	122	80.3	0.377	52

Total extinctions: 0

Generation time: 14.702 sec (14.848 average)

***** Running generation 266 *****

Population's average fitness: -16.49141 stdev: 90.26206

Best fitness: 203.93984 - size: (12, 47) - species 1 - id 61439

Average adjusted fitness: 0.414

Mean genetic distance 2.437, standard deviation 0.683

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	266	129	203.9	0.432	65
2	241	121	77.1	0.396	53

Total extinctions: 0

Generation time: 15.536 sec (14.998 average)

***** Running generation 267 *****

Population's average fitness: -22.57499 stdev: 93.97299

Best fitness: 210.54744 - size: (12, 45) - species 1 - id 61889

Average adjusted fitness: 0.446

Mean genetic distance 2.425, standard deviation 0.675

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	267	134	210.5	0.499	66
2	242	116	77.5	0.394	54

Total extinctions: 0

Generation time: 15.526 sec (15.121 average)

***** Running generation 268 *****

Population's average fitness: -10.57040 stdev: 97.54168

Best fitness: 221.98811 - size: (12, 45) - species 1 - id 61889

Average adjusted fitness: 0.367

Mean genetic distance 2.456, standard deviation 0.680

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	268	136	222.0	0.404	67
2	243	114	75.3	0.331	55

Total extinctions: 0

Generation time: 15.583 sec (15.238 average)

***** Running generation 269 *****

Population's average fitness: -18.32287 stdev: 95.24574

Best fitness: 212.75951 - size: (14, 51) - species 1 - id 62315

Average adjusted fitness: 0.403

Mean genetic distance 2.455, standard deviation 0.678

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	269	130	212.8	0.401	68
2	244	120	81.7	0.406	56

Total extinctions: 0

Generation time: 14.678 sec (15.197 average)

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walker_Run1\neat-checkpoint-269

***** Running generation 270 *****

Population's average fitness: -17.57801 stdev: 98.39476

Best fitness: 222.26319 - size: (12, 45) - species 1 - id 61889

Average adjusted fitness: 0.399

Mean genetic distance 2.400, standard deviation 0.692

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	270	131	222.3	0.424	69
2	245	119	81.2	0.373	57

Total extinctions: 0

Generation time: 14.646 sec (15.156 average)

***** Running generation 271 *****

Population's average fitness: -13.69530 stdev: 99.96398

Best fitness: 221.63021 - size: (12, 45) - species 1 - id 61889

Average adjusted fitness: 0.423

Mean genetic distance 2.397, standard deviation 0.669

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	271	132	221.6	0.453	70
2	246	118	81.2	0.393	58

Total extinctions: 0

Generation time: 15.674 sec (15.271 average)

***** Running generation 272 *****

Population's average fitness: -20.29989 stdev: 93.73699

Best fitness: 217.98467 - size: (12, 49) - species 1 - id 62331

Average adjusted fitness: 0.401

Mean genetic distance 2.443, standard deviation 0.628

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====

1	272	130	218.0	0.413	71
2	247	120	87.4	0.389	59

Total extinctions: 0

Generation time: 15.009 sec (15.191 average)

***** Running generation 273 *****

Population's average fitness: -19.01780 stdev: 95.95927

Best fitness: 213.85043 - size: (12, 45) - species 1 - id 61889

Average adjusted fitness: 0.343

Mean genetic distance 2.493, standard deviation 0.685

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	273	135	213.9	0.382	72
2	248	115	85.7	0.303	60

Total extinctions: 0

Generation time: 15.894 sec (15.230 average)

***** Running generation 274 *****

Population's average fitness: -1.72886 stdev: 104.38082

Best fitness: 231.52282 - size: (10, 38) - species 1 - id 62810

Average adjusted fitness: 0.364

Mean genetic distance 2.530, standard deviation 0.775

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	274	134	231.5	0.386	73
2	249	116	80.0	0.342	61

Total extinctions: 0

Generation time: 15.701 sec (15.295 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-274

***** Running generation 275 *****

Population's average fitness: -3.43191 stdev: 98.84627

Best fitness: 202.33965 - size: (11, 43) - species 1 - id 63659

Average adjusted fitness: 0.456

Mean genetic distance 2.605, standard deviation 0.753

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	275	135	202.3	0.493	74
2	250	115	83.3	0.420	62

Total extinctions: 0

Generation time: 16.671 sec (15.492 average)

***** Running generation 276 *****

Population's average fitness: -11.57166 stdev: 100.95528

Best fitness: 209.03826 - size: (14, 47) - species 1 - id 63491

Average adjusted fitness: 0.395

Mean genetic distance 2.650, standard deviation 0.756

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	276	138	209.0	0.445	75
2	251	112	83.1	0.345	63

Total extinctions: 0
 Generation time: 15.188 sec (15.457 average)

***** Running generation 277 *****

Population's average fitness: -8.64042 stdev: 97.93268
 Best fitness: 231.10726 - size: (13, 43) - species 1 - id 63891
 Average adjusted fitness: 0.363
 Mean genetic distance 2.643, standard deviation 0.857
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	277	137	231.1	0.401	76
2	252	113	87.6	0.326	64

Total extinctions: 0
 Generation time: 15.941 sec (15.498 average)

***** Running generation 278 *****

Population's average fitness: -10.56841 stdev: 96.78324
 Best fitness: 214.87485 - size: (14, 47) - species 1 - id 63491
 Average adjusted fitness: 0.333
 Mean genetic distance 2.597, standard deviation 0.952
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	278	136	214.9	0.364	77
2	253	114	85.4	0.303	65

Total extinctions: 0
 Generation time: 15.802 sec (15.520 average)

***** Running generation 279 *****

Population's average fitness: 2.93453 stdev: 101.08125
 Best fitness: 216.38594 - size: (12, 47) - species 1 - id 64211
 Average adjusted fitness: 0.449
 Mean genetic distance 2.577, standard deviation 0.950
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	279	138	216.4	0.501	78
2	254	112	85.4	0.398	66

Total extinctions: 0
 Generation time: 16.874 sec (15.740 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-279

***** Running generation 280 *****

Population's average fitness: -16.97194 stdev: 95.76330
 Best fitness: 205.08468 - size: (13, 42) - species 1 - id 64567
 Average adjusted fitness: 0.387
 Mean genetic distance 2.600, standard deviation 0.927
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	280	134	205.1	0.402	79
2	255	116	82.4	0.372	67

Total extinctions: 0
 Generation time: 15.275 sec (15.803 average)

***** Running generation 281 *****

Population's average fitness: -16.93792 stdev: 95.29150
 Best fitness: 215.84317 - size: (12, 43) - species 1 - id 65145
 Average adjusted fitness: 0.379
 Mean genetic distance 2.579, standard deviation 0.893
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	281	136	215.8	0.417	80
2	256	114	84.1	0.341	68

Total extinctions: 0
 Generation time: 15.363 sec (15.772 average)

***** Running generation 282 *****

Population's average fitness: -9.73919 stdev: 97.85664
 Best fitness: 225.38474 - size: (12, 43) - species 1 - id 65080
 Average adjusted fitness: 0.367
 Mean genetic distance 2.663, standard deviation 0.850
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	282	137	225.4	0.402	81
2	257	113	83.1	0.332	69

Total extinctions: 0
 Generation time: 15.744 sec (15.845 average)

***** Running generation 283 *****

Population's average fitness: -7.92741 stdev: 105.61073
 Best fitness: 232.27574 - size: (12, 43) - species 1 - id 65080
 Average adjusted fitness: 0.395
 Mean genetic distance 2.699, standard deviation 0.872
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	283	139	232.3	0.442	82
2	258	111	86.5	0.347	70

Total extinctions: 0
 Generation time: 15.012 sec (15.757 average)

***** Running generation 284 *****

Population's average fitness: -17.61028 stdev: 100.37699
 Best fitness: 246.14627 - size: (12, 43) - species 1 - id 65080
 Average adjusted fitness: 0.304
 Mean genetic distance 2.669, standard deviation 0.885
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	284	145	246.1	0.365	83
2	259	105	74.2	0.243	71

Total extinctions: 0
 Generation time: 14.818 sec (15.669 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-284

***** Running generation 285 *****

Population's average fitness: -4.58492 stdev: 100.44654
 Best fitness: 237.99336 - size: (12, 43) - species 1 - id 65080
 Average adjusted fitness: 0.416
 Mean genetic distance 2.632, standard deviation 0.844
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	285	142	238.0	0.463	84
2	260	108	77.9	0.368	72

Total extinctions: 0
 Generation time: 16.141 sec (15.616 average)

***** Running generation 286 *****

Population's average fitness: -9.90349 stdev: 100.66410
 Best fitness: 197.06788 - size: (13, 40) - species 1 - id 66236
 Average adjusted fitness: 0.398
 Mean genetic distance 2.594, standard deviation 0.806
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	286	141	197.1	0.450	85
2	261	109	81.2	0.346	73

Total extinctions: 0
 Generation time: 15.355 sec (15.633 average)

***** Running generation 287 *****

Population's average fitness: -7.85462 stdev: 101.05633
 Best fitness: 236.08240 - size: (13, 42) - species 1 - id 66276
 Average adjusted fitness: 0.396
 Mean genetic distance 2.622, standard deviation 0.813
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	287	143	236.1	0.457	86
2	262	107	78.6	0.335	74

Total extinctions: 0
 Generation time: 16.200 sec (15.658 average)

***** Running generation 288 *****

Population's average fitness: 0.48377 stdev: 106.05920
 Best fitness: 228.61582 - size: (16, 48) - species 1 - id 66706
 Average adjusted fitness: 0.455
 Mean genetic distance 2.669, standard deviation 0.801
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	288	141	228.6	0.504	87
2	263	109	82.7	0.405	75

Total extinctions: 0
 Generation time: 16.103 sec (15.689 average)

***** Running generation 289 *****

Population's average fitness: -0.83215 stdev: 105.68135
 Best fitness: 235.59494 - size: (16, 49) - species 1 - id 66735
 Average adjusted fitness: 0.391

Mean genetic distance 2.702, standard deviation 0.851

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	289	146	235.6	0.470	88
2	264	104	79.3	0.311	76

Total extinctions: 0

Generation time: 16.021 sec (15.603 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-289

***** Running generation 290 *****

Population's average fitness: 3.74870 stdev: 106.84333

Best fitness: 223.01095 - size: (16, 48) - species 1 - id 67208

Average adjusted fitness: 0.361

Mean genetic distance 2.715, standard deviation 0.822

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	290	145	223.0	0.420	89
2	265	105	81.8	0.301	77

Total extinctions: 0

Generation time: 16.182 sec (15.694 average)

***** Running generation 291 *****

Population's average fitness: -9.28700 stdev: 101.49065

Best fitness: 227.80718 - size: (12, 40) - species 1 - id 67132

Average adjusted fitness: 0.361

Mean genetic distance 2.682, standard deviation 0.839

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	291	141	227.8	0.398	90
2	266	109	83.5	0.324	78

Total extinctions: 0

Generation time: 15.538 sec (15.711 average)

***** Running generation 292 *****

Population's average fitness: -10.50032 stdev: 103.64783

Best fitness: 225.49779 - size: (12, 39) - species 1 - id 67365

Average adjusted fitness: 0.390

Mean genetic distance 2.627, standard deviation 0.898

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	292	143	225.5	0.452	91
2	267	107	85.3	0.327	79

Total extinctions: 0

Generation time: 14.894 sec (15.626 average)

***** Running generation 293 *****

Population's average fitness: -8.42656 stdev: 105.08006

Best fitness: 225.13156 - size: (16, 52) - species 1 - id 67906

Average adjusted fitness: 0.407

Mean genetic distance 2.634, standard deviation 0.884

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	293	141	225.1	0.456	92
2	268	109	83.7	0.359	80

Total extinctions: 0

Generation time: 15.281 sec (15.653 average)

***** Running generation 294 *****

Population's average fitness: -21.01259 stdev: 105.99053

Best fitness: 250.54449 - size: (16, 49) - species 1 - id 67874

Average adjusted fitness: 0.427

Mean genetic distance 2.675, standard deviation 0.813

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	294	137	250.5	0.451	0
2	269	113	80.6	0.402	81

Total extinctions: 0

Generation time: 14.184 sec (15.590 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-294

***** Running generation 295 *****

Population's average fitness: -8.23766 stdev: 102.86048

Best fitness: 204.57306 - size: (12, 38) - species 1 - id 68261

Average adjusted fitness: 0.452

Mean genetic distance 2.656, standard deviation 0.861

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	295	136	204.6	0.485	1
2	270	114	85.0	0.418	82

Total extinctions: 0

Generation time: 15.312 sec (15.507 average)

***** Running generation 296 *****

Population's average fitness: -17.82661 stdev: 104.59684

Best fitness: 245.23550 - size: (16, 49) - species 1 - id 68578

Average adjusted fitness: 0.350

Mean genetic distance 2.750, standard deviation 0.855

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	296	141	245.2	0.409	2
2	271	109	84.9	0.290	83

Total extinctions: 0

Generation time: 14.405 sec (15.412 average)

***** Running generation 297 *****

Population's average fitness: -4.40581 stdev: 106.39879

Best fitness: 228.36260 - size: (16, 49) - species 1 - id 68768

Average adjusted fitness: 0.343

Mean genetic distance 2.783, standard deviation 0.905

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====

1	297	144	228.4	0.404	3
2	272	106	80.3	0.281	84

Total extinctions: 0

Generation time: 15.312 sec (15.323 average)

***** Running generation 298 *****

Population's average fitness: -5.19248 stdev: 105.95615

Best fitness: 244.72193 - size: (16, 49) - species 1 - id 69046

Average adjusted fitness: 0.358

Mean genetic distance 2.795, standard deviation 0.894

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	298	143	244.7	0.409	4
2	273	107	81.0	0.308	85

Total extinctions: 0

Generation time: 15.572 sec (15.270 average)

***** Running generation 299 *****

Population's average fitness: 4.64693 stdev: 110.17214

Best fitness: 230.32728 - size: (16, 47) - species 1 - id 68482

Average adjusted fitness: 0.432

Mean genetic distance 2.839, standard deviation 0.841

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	299	141	230.3	0.483	5
2	274	109	89.0	0.381	86

Total extinctions: 0

Generation time: 15.403 sec (15.208 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-299

***** Running generation 300 *****

Population's average fitness: -2.21742 stdev: 107.89557

Best fitness: 239.53732 - size: (16, 47) - species 1 - id 68482

Average adjusted fitness: 0.374

Mean genetic distance 2.812, standard deviation 0.865

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	300	145	239.5	0.443	6
2	275	105	79.4	0.304	87

Total extinctions: 0

Generation time: 14.756 sec (15.066 average)

***** Running generation 301 *****

Population's average fitness: -5.73267 stdev: 106.58026

Best fitness: 235.93365 - size: (16, 45) - species 1 - id 69704

Average adjusted fitness: 0.338

Mean genetic distance 2.802, standard deviation 0.874

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	301	149	235.9	0.416	7
2	276	101	84.4	0.260	88

Total extinctions: 0
 Generation time: 14.984 sec (15.010 average)

***** Running generation 302 *****

Population's average fitness: -9.87850 stdev: 108.39593
 Best fitness: 229.31193 - size: (17, 49) - species 1 - id 69636
 Average adjusted fitness: 0.413
 Mean genetic distance 2.877, standard deviation 0.845
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	302	144	229.3	0.459	8
2	277	106	84.6	0.367	89

Total extinctions: 0
 Generation time: 14.362 sec (14.957 average)

***** Running generation 303 *****

Population's average fitness: -14.56468 stdev: 106.51681
 Best fitness: 247.45339 - size: (14, 46) - species 1 - id 70090
 Average adjusted fitness: 0.312
 Mean genetic distance 2.953, standard deviation 0.837
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	303	150	247.5	0.389	9
2	278	100	83.8	0.235	90

Total extinctions: 0
 Generation time: 14.168 sec (14.846 average)

***** Running generation 304 *****

Population's average fitness: -15.85689 stdev: 101.78682
 Best fitness: 216.07697 - size: (17, 48) - species 1 - id 70354
 Average adjusted fitness: 0.481
 Mean genetic distance 2.965, standard deviation 0.831
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	304	141	216.1	0.511	10
2	279	109	80.7	0.450	91

Total extinctions: 0
 Generation time: 14.770 sec (14.904 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-304

***** Running generation 305 *****

Population's average fitness: -6.68520 stdev: 105.68854
 Best fitness: 229.60174 - size: (17, 48) - species 1 - id 70660
 Average adjusted fitness: 0.382
 Mean genetic distance 2.909, standard deviation 0.837
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	305	143	229.6	0.444	11
2	280	107	80.4	0.319	92

Total extinctions: 0
 Generation time: 15.391 sec (14.912 average)

***** Running generation 306 *****

Population's average fitness: -6.41627 stdev: 106.43185
 Best fitness: 245.95402 - size: (17, 46) - species 1 - id 70804
 Average adjusted fitness: 0.347
 Mean genetic distance 2.852, standard deviation 0.845
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	306	147	246.0	0.421	12
2	281	103	77.0	0.272	93

Total extinctions: 0
 Generation time: 14.958 sec (14.968 average)

***** Running generation 307 *****

Population's average fitness: 2.81240 stdev: 105.92893
 Best fitness: 233.33480 - size: (13, 42) - species 1 - id 71013
 Average adjusted fitness: 0.382
 Mean genetic distance 2.855, standard deviation 0.856
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	307	145	233.3	0.436	13
2	282	105	82.7	0.329	94

Total extinctions: 0
 Generation time: 15.635 sec (15.000 average)

***** Running generation 308 *****

Population's average fitness: -10.50289 stdev: 106.09499
 Best fitness: 246.14474 - size: (16, 45) - species 1 - id 71342
 Average adjusted fitness: 0.406
 Mean genetic distance 2.935, standard deviation 0.811
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	308	143	246.1	0.458	14
2	283	107	78.0	0.354	95

Total extinctions: 0
 Generation time: 14.810 sec (14.924 average)

***** Running generation 309 *****

Population's average fitness: -17.06449 stdev: 104.01077
 Best fitness: 234.89711 - size: (16, 49) - species 1 - id 71097
 Average adjusted fitness: 0.422
 Mean genetic distance 2.983, standard deviation 0.777
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	309	141	234.9	0.469	15
2	284	109	86.0	0.374	96

Total extinctions: 0
 Generation time: 14.668 sec (14.850 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-309

***** Running generation 310 *****

Population's average fitness: -13.82014 stdev: 104.02280
 Best fitness: 235.97435 - size: (19, 53) - species 1 - id 71690
 Average adjusted fitness: 0.390
 Mean genetic distance 3.055, standard deviation 0.781
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	310	143	236.0	0.452	16
2	285	107	81.1	0.329	97

Total extinctions: 0
 Generation time: 14.799 sec (14.854 average)

***** Running generation 311 *****

Population's average fitness: -13.06006 stdev: 111.99895
 Best fitness: 239.80306 - size: (19, 51) - species 1 - id 72009
 Average adjusted fitness: 0.362
 Mean genetic distance 2.910, standard deviation 0.798
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	311	144	239.8	0.420	17
2	286	106	91.0	0.304	98

Total extinctions: 0
 Generation time: 13.981 sec (14.754 average)

***** Running generation 312 *****

Population's average fitness: -3.00333 stdev: 107.82789
 Best fitness: 229.40204 - size: (17, 48) - species 1 - id 72265
 Average adjusted fitness: 0.368
 Mean genetic distance 2.805, standard deviation 0.789
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	312	142	229.4	0.410	18
2	287	108	86.6	0.327	99

Total extinctions: 0
 Generation time: 15.323 sec (14.850 average)

***** Running generation 313 *****

Population's average fitness: 1.58264 stdev: 111.74878
 Best fitness: 250.93990 - size: (17, 48) - species 1 - id 72265
 Average adjusted fitness: 0.337
 Mean genetic distance 2.805, standard deviation 0.766
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	313	151	250.9	0.432	0
2	288	99	78.2	0.242	100

Total extinctions: 0
 Generation time: 14.974 sec (14.931 average)

***** Running generation 314 *****

Population's average fitness: -2.28710 stdev: 111.89560
 Best fitness: 271.54410 - size: (17, 48) - species 1 - id 72265
 Average adjusted fitness: 0.336

Mean genetic distance 2.799, standard deviation 0.693

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	314	149	271.5	0.396	0
2	289	101	89.1	0.277	101

Total extinctions: 0

Generation time: 14.501 sec (14.904 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-314

***** Running generation 315 *****

Population's average fitness: 1.28937 stdev: 111.08027

Best fitness: 254.88914 - size: (18, 49) - species 1 - id 72834

Average adjusted fitness: 0.318

Mean genetic distance 2.844, standard deviation 0.722

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
1	315	79	254.9	0.386	1
2	290	100	85.8	0.250	102
3	0	71	--	--	0

Total extinctions: 0

Generation time: 15.104 sec (14.875 average)

***** Running generation 316 *****

Population's average fitness: -9.80747 stdev: 111.09303

Best fitness: 251.34567 - size: (17, 48) - species 1 - id 72718

Species 2 with 100 members is stagnated: removing it

Average adjusted fitness: 0.444

Mean genetic distance 2.117, standard deviation 0.374

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	316	56	251.3	0.475	2
3	1	194	218.4	0.414	0

Total extinctions: 0

Generation time: 14.231 sec (14.802 average)

***** Running generation 317 *****

Population's average fitness: 2.57886 stdev: 112.42963

Best fitness: 243.36856 - size: (19, 51) - species 3 - id 73419

Average adjusted fitness: 0.422

Mean genetic distance 1.963, standard deviation 0.298

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	317	102	199.6	0.403	3
3	2	148	243.4	0.441	0

Total extinctions: 0

Generation time: 16.208 sec (14.860 average)

***** Running generation 318 *****

Population's average fitness: 15.03617 stdev: 121.53928

Best fitness: 246.77454 - size: (17, 46) - species 3 - id 73151

Average adjusted fitness: 0.458
 Mean genetic distance 1.965, standard deviation 0.322
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	318	104	210.5	0.462	4
3	3	146	246.8	0.454	0

 Total extinctions: 0
 Generation time: 16.205 sec (14.999 average)

***** Running generation 319 *****

Population's average fitness: 13.09919 stdev: 113.31712
 Best fitness: 237.97821 - size: (18, 46) - species 3 - id 73845
 Average adjusted fitness: 0.412
 Mean genetic distance 1.969, standard deviation 0.321
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	319	95	204.9	0.403	5
3	4	155	238.0	0.422	1

 Total extinctions: 0
 Generation time: 17.356 sec (15.268 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-319

***** Running generation 320 *****

Population's average fitness: 14.12375 stdev: 118.19526
 Best fitness: 247.15977 - size: (20, 52) - species 3 - id 74020
 Average adjusted fitness: 0.399
 Mean genetic distance 1.983, standard deviation 0.333
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	320	110	217.7	0.403	6
3	5	140	247.2	0.395	0

 Total extinctions: 0
 Generation time: 16.518 sec (15.440 average)

***** Running generation 321 *****

Population's average fitness: 20.72582 stdev: 117.74702
 Best fitness: 245.90793 - size: (19, 46) - species 3 - id 74306
 Average adjusted fitness: 0.436
 Mean genetic distance 1.986, standard deviation 0.352
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	321	120	231.4	0.451	7
3	6	130	245.9	0.422	1

 Total extinctions: 0
 Generation time: 17.773 sec (15.819 average)

***** Running generation 322 *****

Population's average fitness: 1.27610 stdev: 124.47550
 Best fitness: 241.10446 - size: (17, 49) - species 1 - id 74355
 Average adjusted fitness: 0.415
 Mean genetic distance 2.020, standard deviation 0.343

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	322	120	241.1	0.403	8
3	7	130	237.7	0.427	2

Total extinctions: 0

Generation time: 14.941 sec (15.781 average)

***** Running generation 323 *****

Population's average fitness: 26.89387 stdev: 123.87918

Best fitness: 240.23997 - size: (18, 48) - species 1 - id 74805

Average adjusted fitness: 0.478

Mean genetic distance 2.057, standard deviation 0.370

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	323	113	240.2	0.466	9
3	8	137	236.2	0.490	3

Total extinctions: 0

Generation time: 16.697 sec (15.953 average)

***** Running generation 324 *****

Population's average fitness: 15.04507 stdev: 121.22869

Best fitness: 250.03721 - size: (20, 50) - species 3 - id 74605

Average adjusted fitness: 0.472

Mean genetic distance 2.094, standard deviation 0.313

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	324	125	230.4	0.473	10
3	9	125	250.0	0.471	0

Total extinctions: 0

Generation time: 16.497 sec (16.153 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-324

***** Running generation 325 *****

Population's average fitness: 11.15634 stdev: 123.36428

Best fitness: 233.97252 - size: (20, 52) - species 3 - id 74582

Average adjusted fitness: 0.513

Mean genetic distance 2.026, standard deviation 0.329

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	325	128	232.9	0.539	11
3	10	122	234.0	0.487	1

Total extinctions: 0

Generation time: 16.042 sec (16.247 average)

***** Running generation 326 *****

Population's average fitness: 21.37909 stdev: 119.55386

Best fitness: 232.73234 - size: (17, 49) - species 1 - id 74979

Average adjusted fitness: 0.495

Mean genetic distance 1.974, standard deviation 0.372

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

```

=====
====  ===  =====  =====  =====
1  326  126  232.7  0.503  12
3   11  124  224.9  0.488  2
Total extinctions: 0
Generation time: 17.296 sec (16.553 average)

```

***** Running generation 327 *****

```

Population's average fitness: 15.63781 stdev: 119.45143
Best fitness: 234.49508 - size: (18, 48) - species 1 - id 75284
Average adjusted fitness: 0.470
Mean genetic distance 2.058, standard deviation 0.349
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
1  327  123  234.5  0.499  13
3   12  127  225.8  0.441  3
Total extinctions: 0
Generation time: 17.246 sec (16.657 average)

```

***** Running generation 328 *****

```

Population's average fitness: 7.11229 stdev: 119.88713
Best fitness: 250.90518 - size: (16, 46) - species 1 - id 75909
Average adjusted fitness: 0.433
Mean genetic distance 2.026, standard deviation 0.360
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
1  328  134  250.9  0.483  14
3   13  116  241.5  0.383  4
Total extinctions: 0
Generation time: 16.512 sec (16.688 average)

```

***** Running generation 329 *****

```

Population's average fitness: 13.82733 stdev: 122.51874
Best fitness: 242.83540 - size: (16, 46) - species 3 - id 76036
Average adjusted fitness: 0.439
Mean genetic distance 2.041, standard deviation 0.371
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
1  329  125  224.1  0.449  15
3   14  125  242.8  0.430  5
Total extinctions: 0
Generation time: 16.318 sec (16.584 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-329

```

***** Running generation 330 *****

```

Population's average fitness: 8.35689 stdev: 122.31061
Best fitness: 239.55703 - size: (20, 52) - species 3 - id 74582
Average adjusted fitness: 0.437
Mean genetic distance 2.102, standard deviation 0.341
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
1  330  126  230.0  0.433  16

```


3 15 124 239.6 0.440 6
 Total extinctions: 0
 Generation time: 15.564 sec (16.489 average)

***** Running generation 331 *****

Population's average fitness: 5.41756 stdev: 115.06376
 Best fitness: 251.97205 - size: (21, 52) - species 3 - id 76601
 Average adjusted fitness: 0.433
 Mean genetic distance 2.142, standard deviation 0.312
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	331	119	228.1	0.452	17
3	16	131	252.0	0.414	0

Total extinctions: 0
 Generation time: 16.288 sec (16.340 average)

***** Running generation 332 *****

Population's average fitness: 3.55706 stdev: 116.22358
 Best fitness: 251.93940 - size: (19, 53) - species 1 - id 76713
 Average adjusted fitness: 0.410
 Mean genetic distance 2.118, standard deviation 0.293
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	332	112	251.9	0.400	18
3	17	138	241.5	0.419	1

Total extinctions: 0
 Generation time: 16.004 sec (16.446 average)

***** Running generation 333 *****

Population's average fitness: 4.39466 stdev: 119.22124
 Best fitness: 226.11170 - size: (16, 40) - species 1 - id 76656
 Average adjusted fitness: 0.435
 Mean genetic distance 2.134, standard deviation 0.323
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	333	117	226.1	0.462	19
3	18	133	225.3	0.408	2

Total extinctions: 0
 Generation time: 16.597 sec (16.436 average)

***** Running generation 334 *****

Population's average fitness: 14.39231 stdev: 119.00001
 Best fitness: 244.26869 - size: (20, 52) - species 3 - id 74582
 Average adjusted fitness: 0.407
 Mean genetic distance 2.117, standard deviation 0.325
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	334	104	241.0	0.369	20
3	19	146	244.3	0.444	3

Total extinctions: 0
 Generation time: 17.075 sec (16.494 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti

walker_Run1\neat-checkpoint-334

***** Running generation 335 *****

Population's average fitness: 7.98840 stdev: 119.41009
 Best fitness: 261.07782 - size: (20, 49) - species 3 - id 77528
 Average adjusted fitness: 0.368
 Mean genetic distance 2.098, standard deviation 0.292
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	335	120	224.0	0.349	21
3	20	130	261.1	0.386	0

Total extinctions: 0
 Generation time: 16.450 sec (16.535 average)

***** Running generation 336 *****

Population's average fitness: 18.12281 stdev: 119.17284
 Best fitness: 250.69109 - size: (20, 53) - species 3 - id 77726
 Average adjusted fitness: 0.404
 Mean genetic distance 2.147, standard deviation 0.323
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	336	122	230.7	0.382	22
3	21	128	250.7	0.425	1

Total extinctions: 0
 Generation time: 17.033 sec (16.509 average)

***** Running generation 337 *****

Population's average fitness: 23.77855 stdev: 122.05369
 Best fitness: 251.15251 - size: (19, 45) - species 3 - id 77549
 Average adjusted fitness: 0.406
 Mean genetic distance 2.097, standard deviation 0.389
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	337	121	244.4	0.389	23
3	22	129	251.2	0.424	2

Total extinctions: 0
 Generation time: 17.458 sec (16.530 average)

***** Running generation 338 *****

Population's average fitness: 15.29168 stdev: 124.48213
 Best fitness: 252.26322 - size: (21, 53) - species 3 - id 78172
 Average adjusted fitness: 0.444
 Mean genetic distance 2.035, standard deviation 0.400
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	338	119	248.6	0.404	24
3	23	131	252.3	0.483	3

Total extinctions: 0
 Generation time: 16.720 sec (16.551 average)

***** Running generation 339 *****

Population's average fitness: 18.63063 stdev: 124.34007
 Best fitness: 249.17114 - size: (19, 49) - species 3 - id 78489
 Average adjusted fitness: 0.411
 Mean genetic distance 2.057, standard deviation 0.403
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	339	117	224.5	0.380	25
3	24	133	249.2	0.442	4

Total extinctions: 0
 Generation time: 16.663 sec (16.585 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-339

***** Running generation 340 *****

Population's average fitness: 29.67484 stdev: 122.09159
 Best fitness: 250.11142 - size: (19, 49) - species 3 - id 78489
 Average adjusted fitness: 0.439
 Mean genetic distance 2.043, standard deviation 0.396
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	340	117	231.7	0.413	26
3	25	133	250.1	0.464	5

Total extinctions: 0
 Generation time: 17.873 sec (16.816 average)

***** Running generation 341 *****

Population's average fitness: 27.15120 stdev: 120.90164
 Best fitness: 275.40665 - size: (20, 51) - species 1 - id 78124
 Average adjusted fitness: 0.416
 Mean genetic distance 2.101, standard deviation 0.378
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	341	123	275.4	0.412	0
3	26	127	245.0	0.420	6

Total extinctions: 0
 Generation time: 17.759 sec (16.963 average)

***** Running generation 342 *****

Population's average fitness: 26.31831 stdev: 124.10094
 Best fitness: 250.22501 - size: (19, 47) - species 3 - id 79021
 Average adjusted fitness: 0.428
 Mean genetic distance 2.167, standard deviation 0.393
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	342	125	232.0	0.433	1
3	27	125	250.2	0.422	7

Total extinctions: 0
 Generation time: 17.699 sec (17.133 average)

***** Running generation 343 *****

Population's average fitness: 16.29930 stdev: 124.04647
 Best fitness: 245.98269 - size: (19, 51) - species 1 - id 76748

Average adjusted fitness: 0.453
 Mean genetic distance 2.240, standard deviation 0.402
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	343	123	246.0	0.440	2
3	28	127	244.7	0.467	8

 Total extinctions: 0
 Generation time: 17.168 sec (17.190 average)

***** Running generation 344 *****

Population's average fitness: 11.95067 stdev: 118.50893
 Best fitness: 246.13421 - size: (19, 47) - species 3 - id 79021
 Average adjusted fitness: 0.428
 Mean genetic distance 2.272, standard deviation 0.408
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	344	122	231.5	0.414	3
3	29	128	246.1	0.443	9

 Total extinctions: 0
 Generation time: 16.908 sec (17.173 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-344

***** Running generation 345 *****

Population's average fitness: 9.74820 stdev: 124.52586
 Best fitness: 239.00979 - size: (18, 48) - species 3 - id 79470
 Average adjusted fitness: 0.437
 Mean genetic distance 2.239, standard deviation 0.379
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	345	120	236.6	0.413	4
3	30	130	239.0	0.461	10

 Total extinctions: 0
 Generation time: 16.767 sec (17.205 average)

***** Running generation 346 *****

Population's average fitness: 6.14907 stdev: 116.84472
 Best fitness: 249.45796 - size: (22, 50) - species 3 - id 80024
 Average adjusted fitness: 0.421
 Mean genetic distance 2.242, standard deviation 0.379
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	346	121	218.1	0.415	5
3	31	129	249.5	0.428	11

 Total extinctions: 0
 Generation time: 16.733 sec (17.175 average)

***** Running generation 347 *****

Population's average fitness: 21.57844 stdev: 122.88989
 Best fitness: 251.13541 - size: (18, 47) - species 3 - id 80272
 Average adjusted fitness: 0.410
 Mean genetic distance 2.312, standard deviation 0.393

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	347	124	236.8	0.417	6
3	32	126	251.1	0.403	12

Total extinctions: 0

Generation time: 17.462 sec (17.175 average)

***** Running generation 348 *****

Population's average fitness: 29.59331 stdev: 123.16465

Best fitness: 253.40907 - size: (19, 49) - species 3 - id 78175

Average adjusted fitness: 0.483

Mean genetic distance 2.285, standard deviation 0.381

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	348	121	226.1	0.456	7
3	33	129	253.4	0.510	13

Total extinctions: 0

Generation time: 17.957 sec (17.299 average)

***** Running generation 349 *****

Population's average fitness: 16.36540 stdev: 120.86201

Best fitness: 229.37380 - size: (19, 50) - species 3 - id 80731

Average adjusted fitness: 0.492

Mean genetic distance 2.234, standard deviation 0.345

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	349	118	217.6	0.472	8
3	34	132	229.4	0.511	14

Total extinctions: 0

Generation time: 16.788 sec (17.312 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-349

***** Running generation 350 *****

Population's average fitness: 11.42623 stdev: 124.80105

Best fitness: 245.20606 - size: (18, 51) - species 3 - id 80917

Average adjusted fitness: 0.400

Mean genetic distance 2.302, standard deviation 0.333

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	350	119	238.2	0.397	9
3	35	131	245.2	0.402	15

Total extinctions: 0

Generation time: 17.035 sec (17.228 average)

***** Running generation 351 *****

Population's average fitness: 5.36237 stdev: 118.61330

Best fitness: 224.55579 - size: (18, 49) - species 3 - id 81202

Average adjusted fitness: 0.416

Mean genetic distance 2.344, standard deviation 0.386

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

```

=====
1  351  120  221.2  0.400  10
3   36  130  224.6  0.432  16
Total extinctions: 0
Generation time: 15.852 sec (17.037 average)

```

***** Running generation 352 *****

```

Population's average fitness: 14.70513 stdev: 125.96954
Best fitness: 247.19095 - size: (21, 50) - species 3 - id 80952
Average adjusted fitness: 0.501
Mean genetic distance 2.374, standard deviation 0.384
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
1  352  121  216.3  0.515  11
3   37  129  247.2  0.488  17
Total extinctions: 0
Generation time: 16.169 sec (16.884 average)

```

***** Running generation 353 *****

```

Population's average fitness: 8.00148 stdev: 120.68950
Best fitness: 250.92452 - size: (22, 48) - species 3 - id 81657
Average adjusted fitness: 0.440
Mean genetic distance 2.385, standard deviation 0.400
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
1  353  130  236.8  0.447  12
3   38  120  250.9  0.433  18
Total extinctions: 0
Generation time: 16.050 sec (16.772 average)

```

***** Running generation 354 *****

```

Population's average fitness: -6.89736 stdev: 117.19746
Best fitness: 242.07857 - size: (23, 47) - species 3 - id 81847
Average adjusted fitness: 0.401
Mean genetic distance 2.356, standard deviation 0.446
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
1  354  130  238.6  0.402  13
3   39  120  242.1  0.401  19
Total extinctions: 0
Generation time: 14.479 sec (16.529 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-354

```

***** Running generation 355 *****

```

Population's average fitness: 9.01554 stdev: 116.05257
Best fitness: 228.38253 - size: (20, 49) - species 1 - id 80846
Average adjusted fitness: 0.422
Mean genetic distance 2.396, standard deviation 0.450
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
1  355  137  228.4  0.431  14

```

3 40 113 219.4 0.412 20
 Total extinctions: 0
 Generation time: 16.479 sec (16.500 average)

***** Running generation 356 *****

Population's average fitness: -0.45671 stdev: 113.56424
 Best fitness: 246.07649 - size: (21, 50) - species 1 - id 82363
 Average adjusted fitness: 0.395
 Mean genetic distance 2.453, standard deviation 0.388
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	356	153	246.1	0.386	15
3	41	97	220.0	0.405	21

Total extinctions: 0
 Generation time: 16.074 sec (16.434 average)

***** Running generation 357 *****

Population's average fitness: 16.37455 stdev: 115.83474
 Best fitness: 239.47362 - size: (19, 48) - species 1 - id 82429
 Average adjusted fitness: 0.448
 Mean genetic distance 2.367, standard deviation 0.396
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	357	178	239.5	0.390	16
3	42	72	205.5	0.506	22

Total extinctions: 0
 Generation time: 16.320 sec (16.320 average)

***** Running generation 358 *****

Population's average fitness: 12.57623 stdev: 119.33862
 Best fitness: 244.30203 - size: (21, 54) - species 1 - id 82534
 Average adjusted fitness: 0.474
 Mean genetic distance 2.316, standard deviation 0.483
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	358	153	244.3	0.483	17
3	43	97	222.6	0.464	23

Total extinctions: 0
 Generation time: 16.980 sec (16.223 average)

***** Running generation 359 *****

Population's average fitness: 4.40546 stdev: 112.74815
 Best fitness: 241.01381 - size: (19, 48) - species 1 - id 82729
 Average adjusted fitness: 0.496
 Mean genetic distance 2.291, standard deviation 0.564
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	359	137	241.0	0.483	18
3	44	113	237.6	0.510	24

Total extinctions: 0
 Generation time: 17.140 sec (16.258 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti

walker_Run1\neat-checkpoint-359

***** Running generation 360 *****

Population's average fitness: 9.29602 stdev: 118.60686
 Best fitness: 240.92611 - size: (22, 50) - species 3 - id 83092
 Average adjusted fitness: 0.397
 Mean genetic distance 2.315, standard deviation 0.573
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	360	128	237.7	0.378	19
3	45	122	240.9	0.416	25

Total extinctions: 0
 Generation time: 16.566 sec (16.211 average)

***** Running generation 361 *****

Population's average fitness: 15.67107 stdev: 117.40155
 Best fitness: 234.17553 - size: (23, 57) - species 3 - id 83530
 Average adjusted fitness: 0.423
 Mean genetic distance 2.278, standard deviation 0.618
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	361	125	225.7	0.415	20
3	46	125	234.2	0.431	26

Total extinctions: 0
 Generation time: 17.061 sec (16.332 average)

***** Running generation 362 *****

Population's average fitness: 24.09700 stdev: 118.41201
 Best fitness: 258.69701 - size: (19, 45) - species 1 - id 83567
 Average adjusted fitness: 0.459
 Mean genetic distance 2.354, standard deviation 0.618
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	362	128	258.7	0.478	21
3	47	122	242.9	0.439	27

Total extinctions: 0
 Generation time: 17.472 sec (16.462 average)

***** Running generation 363 *****

Population's average fitness: 24.86457 stdev: 116.99557
 Best fitness: 241.56982 - size: (21, 54) - species 1 - id 83584
 Average adjusted fitness: 0.435
 Mean genetic distance 2.376, standard deviation 0.590
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	363	126	241.6	0.429	22
3	48	124	231.3	0.440	28

Total extinctions: 0
 Generation time: 17.343 sec (16.591 average)

***** Running generation 364 *****

Population's average fitness: 18.09673 stdev: 113.12902
 Best fitness: 240.92839 - size: (19, 43) - species 1 - id 84225
 Average adjusted fitness: 0.430
 Mean genetic distance 2.383, standard deviation 0.561
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	364	125	240.9	0.433	23
3	49	125	221.7	0.427	29

Total extinctions: 0
 Generation time: 16.657 sec (16.809 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-364

***** Running generation 365 *****

Population's average fitness: 0.29558 stdev: 114.96341
 Best fitness: 228.26327 - size: (21, 45) - species 3 - id 84093
 Average adjusted fitness: 0.385
 Mean genetic distance 2.401, standard deviation 0.532
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	365	121	224.0	0.363	24
3	50	129	228.3	0.407	30

Total extinctions: 0
 Generation time: 15.901 sec (16.751 average)

***** Running generation 366 *****

Population's average fitness: 17.45553 stdev: 117.52629
 Best fitness: 236.32381 - size: (22, 55) - species 1 - id 84392
 Average adjusted fitness: 0.421
 Mean genetic distance 2.336, standard deviation 0.547
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	366	121	236.3	0.413	25
3	51	129	235.3	0.429	31

Total extinctions: 0
 Generation time: 16.736 sec (16.818 average)

***** Running generation 367 *****

Population's average fitness: 19.38788 stdev: 121.57099
 Best fitness: 244.49062 - size: (23, 51) - species 3 - id 84696
 Average adjusted fitness: 0.486
 Mean genetic distance 2.323, standard deviation 0.552
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	367	122	240.7	0.474	26
3	52	128	244.5	0.499	32

Total extinctions: 0
 Generation time: 16.439 sec (16.830 average)

***** Running generation 368 *****

Population's average fitness: 18.00442 stdev: 116.17763
 Best fitness: 244.46149 - size: (22, 48) - species 3 - id 85099

Average adjusted fitness: 0.449
 Mean genetic distance 2.319, standard deviation 0.541
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	368	121	224.1	0.429	27
3	53	129	244.5	0.469	33

Total extinctions: 0
 Generation time: 16.846 sec (16.816 average)

***** Running generation 369 *****

Population's average fitness: 19.02440 stdev: 117.07269
 Best fitness: 254.23968 - size: (21, 45) - species 3 - id 84093
 Average adjusted fitness: 0.415
 Mean genetic distance 2.313, standard deviation 0.540
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	369	122	250.4	0.408	28
3	54	128	254.2	0.421	34

Total extinctions: 0
 Generation time: 16.563 sec (16.758 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-369

***** Running generation 370 *****

Population's average fitness: 15.23706 stdev: 117.03349
 Best fitness: 221.45685 - size: (23, 52) - species 3 - id 85296
 Average adjusted fitness: 0.431
 Mean genetic distance 2.317, standard deviation 0.552
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	370	123	206.6	0.422	29
3	55	127	221.5	0.441	35

Total extinctions: 0
 Generation time: 16.631 sec (16.765 average)

***** Running generation 371 *****

Population's average fitness: 18.73336 stdev: 124.17478
 Best fitness: 252.29196 - size: (23, 53) - species 3 - id 85818
 Average adjusted fitness: 0.422
 Mean genetic distance 2.406, standard deviation 0.504
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	371	118	235.1	0.384	30
3	56	132	252.3	0.459	36

Total extinctions: 0
 Generation time: 16.360 sec (16.695 average)

***** Running generation 372 *****

Population's average fitness: 27.64838 stdev: 122.79017
 Best fitness: 236.39501 - size: (20, 48) - species 3 - id 85826
 Average adjusted fitness: 0.452
 Mean genetic distance 2.420, standard deviation 0.549

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	372	119	233.7	0.433	31
3	57	131	236.4	0.470	37

Total extinctions: 0

Generation time: 16.933 sec (16.641 average)

***** Running generation 373 *****

Population's average fitness: 24.59410 stdev: 124.85405

Best fitness: 241.53981 - size: (20, 50) - species 1 - id 86122

Average adjusted fitness: 0.478

Mean genetic distance 2.306, standard deviation 0.647

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	373	120	241.5	0.459	32
3	58	130	238.0	0.497	38

Total extinctions: 0

Generation time: 16.487 sec (16.555 average)

***** Running generation 374 *****

Population's average fitness: 1.71978 stdev: 120.16874

Best fitness: 237.03508 - size: (23, 47) - species 3 - id 85794

Average adjusted fitness: 0.407

Mean genetic distance 2.309, standard deviation 0.634

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	374	119	232.8	0.383	33
3	59	131	237.0	0.431	39

Total extinctions: 0

Generation time: 14.745 sec (16.364 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-374

***** Running generation 375 *****

Population's average fitness: 13.89433 stdev: 120.88999

Best fitness: 241.69028 - size: (23, 50) - species 3 - id 86739

Average adjusted fitness: 0.401

Mean genetic distance 2.247, standard deviation 0.662

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
1	375	115	215.3	0.354	34
3	60	135	241.7	0.448	40

Total extinctions: 0

Generation time: 17.000 sec (16.474 average)

***** Running generation 376 *****

Population's average fitness: 27.05371 stdev: 125.67230

Best fitness: 272.90202 - size: (23, 49) - species 3 - id 86649

Average adjusted fitness: 0.419

Mean genetic distance 2.255, standard deviation 0.648

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

```

=====
1  376  114  227.3  0.377  35
3   61  136  272.9  0.461   0
Total extinctions: 0
Generation time: 16.281 sec (16.428 average)

```

***** Running generation 377 *****

```

Population's average fitness: 9.11662 stdev: 128.72366
Best fitness: 246.59969 - size: (22, 49) - species 3 - id 86891
Average adjusted fitness: 0.417
Mean genetic distance 2.264, standard deviation 0.577
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
  1  377  112  238.5   0.366   36
  3   62  138  246.6   0.469    1
Total extinctions: 0
Generation time: 15.413 sec (16.326 average)

```

***** Running generation 378 *****

```

Population's average fitness: 12.70367 stdev: 116.53739
Best fitness: 245.10447 - size: (23, 49) - species 3 - id 87442
Average adjusted fitness: 0.372
Mean genetic distance 2.256, standard deviation 0.527
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
  1  378  110  209.5   0.320   37
  3   63  140  245.1   0.424    2
Total extinctions: 0
Generation time: 16.160 sec (16.257 average)

```

***** Running generation 379 *****

```

Population's average fitness: 21.78257 stdev: 126.09072
Best fitness: 272.43360 - size: (23, 50) - species 3 - id 87621
Average adjusted fitness: 0.384
Mean genetic distance 2.238, standard deviation 0.542
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
  1  379  109  224.5   0.336   38
  3   64  141  272.4   0.432    3
Total extinctions: 0
Generation time: 16.706 sec (16.272 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-379

```

***** Running generation 380 *****

```

Population's average fitness: 34.70239 stdev: 121.85446
Best fitness: 259.87368 - size: (21, 53) - species 3 - id 87389
Average adjusted fitness: 0.417
Mean genetic distance 2.211, standard deviation 0.566
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
  1  380  113  212.6   0.392   39

```

3 65 137 259.9 0.443 4
 Total extinctions: 0
 Generation time: 17.936 sec (16.402 average)

***** Running generation 381 *****

Population's average fitness: 37.01645 stdev: 119.59120
 Best fitness: 263.86952 - size: (23, 49) - species 3 - id 87442
 Average adjusted fitness: 0.446
 Mean genetic distance 2.191, standard deviation 0.632
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	381	118	207.6	0.439	40
3	66	132	263.9	0.454	5

Total extinctions: 0
 Generation time: 18.293 sec (16.595 average)

***** Running generation 382 *****

Population's average fitness: 19.55419 stdev: 124.29055
 Best fitness: 258.03291 - size: (24, 52) - species 3 - id 88341
 Average adjusted fitness: 0.452
 Mean genetic distance 2.221, standard deviation 0.572
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	382	119	236.5	0.428	41
3	67	131	258.0	0.475	6

Total extinctions: 0
 Generation time: 16.232 sec (16.525 average)

***** Running generation 383 *****

Population's average fitness: 11.91890 stdev: 126.04122
 Best fitness: 259.26279 - size: (24, 55) - species 3 - id 88544
 Average adjusted fitness: 0.387
 Mean genetic distance 2.255, standard deviation 0.579
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	383	115	225.4	0.342	42
3	68	135	259.3	0.432	7

Total extinctions: 0
 Generation time: 15.665 sec (16.443 average)

***** Running generation 384 *****

Population's average fitness: 29.94044 stdev: 121.95275
 Best fitness: 244.29459 - size: (24, 51) - species 3 - id 88832
 Average adjusted fitness: 0.465
 Mean genetic distance 2.280, standard deviation 0.592
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	384	118	233.5	0.447	43
3	69	132	244.3	0.482	8

Total extinctions: 0
 Generation time: 16.894 sec (16.658 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti

walker_Run1\neat-checkpoint-384

***** Running generation 385 *****

Population's average fitness: 4.86586 stdev: 130.68824
 Best fitness: 267.14190 - size: (20, 50) - species 3 - id 88732
 Average adjusted fitness: 0.424
 Mean genetic distance 2.380, standard deviation 0.568
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	385	114	250.7	0.371	44
3	70	136	267.1	0.478	9

Total extinctions: 0
 Generation time: 14.850 sec (16.443 average)

***** Running generation 386 *****

Population's average fitness: 7.65950 stdev: 117.17576
 Best fitness: 234.21314 - size: (17, 40) - species 1 - id 88417
 Average adjusted fitness: 0.451
 Mean genetic distance 2.355, standard deviation 0.554
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	386	117	234.2	0.436	45
3	71	133	231.0	0.467	10

Total extinctions: 0
 Generation time: 16.488 sec (16.464 average)

***** Running generation 387 *****

Population's average fitness: 21.83628 stdev: 124.93810
 Best fitness: 254.65096 - size: (21, 51) - species 3 - id 88955
 Average adjusted fitness: 0.460
 Mean genetic distance 2.298, standard deviation 0.554
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	387	114	211.0	0.412	46
3	72	136	254.7	0.509	11

Total extinctions: 0
 Generation time: 16.877 sec (16.610 average)

***** Running generation 388 *****

Population's average fitness: 25.77098 stdev: 128.09330
 Best fitness: 261.19637 - size: (21, 51) - species 3 - id 88955
 Average adjusted fitness: 0.415
 Mean genetic distance 2.278, standard deviation 0.576
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	388	119	248.6	0.409	47
3	73	131	261.2	0.420	12

Total extinctions: 0
 Generation time: 16.303 sec (16.624 average)

***** Running generation 389 *****

Population's average fitness: 13.80466 stdev: 122.25556
 Best fitness: 252.62027 - size: (23, 49) - species 3 - id 89691
 Average adjusted fitness: 0.433
 Mean genetic distance 2.238, standard deviation 0.594
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	389	118	229.0	0.412	48
3	74	132	252.6	0.454	13

Total extinctions: 0
 Generation time: 16.589 sec (16.613 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-389

***** Running generation 390 *****

Population's average fitness: 15.87017 stdev: 120.62677
 Best fitness: 231.77208 - size: (20, 41) - species 1 - id 90006
 Average adjusted fitness: 0.452
 Mean genetic distance 2.198, standard deviation 0.632
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	390	122	231.8	0.457	49
3	75	128	230.3	0.447	14

Total extinctions: 0
 Generation time: 16.466 sec (16.466 average)

***** Running generation 391 *****

Population's average fitness: 15.83072 stdev: 122.01639
 Best fitness: 247.37132 - size: (20, 49) - species 3 - id 89370
 Average adjusted fitness: 0.473
 Mean genetic distance 2.218, standard deviation 0.622
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	391	123	242.8	0.463	50
3	76	127	247.4	0.484	15

Total extinctions: 0
 Generation time: 17.133 sec (16.350 average)

***** Running generation 392 *****

Population's average fitness: 10.22315 stdev: 130.18131
 Best fitness: 249.51661 - size: (24, 53) - species 3 - id 90633
 Average adjusted fitness: 0.397
 Mean genetic distance 2.244, standard deviation 0.662
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	392	124	227.4	0.391	51
3	77	126	249.5	0.403	16

Total extinctions: 0
 Generation time: 15.040 sec (16.230 average)

***** Running generation 393 *****

Population's average fitness: 15.93206 stdev: 126.16817
 Best fitness: 254.88212 - size: (21, 52) - species 3 - id 90629

Average adjusted fitness: 0.442
 Mean genetic distance 2.217, standard deviation 0.673
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	393	123	238.2	0.436	52
3	78	127	254.9	0.447	17

 Total extinctions: 0
 Generation time: 15.067 sec (16.171 average)

***** Running generation 394 *****

Population's average fitness: 30.06557 stdev: 123.88558
 Best fitness: 245.09902 - size: (18, 34) - species 1 - id 90973
 Average adjusted fitness: 0.434
 Mean genetic distance 2.213, standard deviation 0.659
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	394	118	245.1	0.394	53
3	79	132	232.8	0.474	18

 Total extinctions: 0
 Generation time: 16.631 sec (16.144 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-394

***** Running generation 395 *****

Population's average fitness: 21.44518 stdev: 125.68312
 Best fitness: 231.39036 - size: (20, 43) - species 1 - id 91264
 Average adjusted fitness: 0.444
 Mean genetic distance 2.261, standard deviation 0.657
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	395	116	231.4	0.408	54
3	80	134	227.9	0.481	19

 Total extinctions: 0
 Generation time: 16.641 sec (16.324 average)

***** Running generation 396 *****

Population's average fitness: 16.59617 stdev: 126.02481
 Best fitness: 234.70256 - size: (23, 52) - species 3 - id 91148
 Average adjusted fitness: 0.431
 Mean genetic distance 2.303, standard deviation 0.641
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	396	117	215.2	0.404	55
3	81	133	234.7	0.459	20

 Total extinctions: 0
 Generation time: 15.747 sec (16.249 average)

***** Running generation 397 *****

Population's average fitness: 21.67133 stdev: 127.83502
 Best fitness: 256.61150 - size: (18, 43) - species 1 - id 91343
 Average adjusted fitness: 0.445
 Mean genetic distance 2.309, standard deviation 0.643

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	397	116	256.6	0.416	56
3	82	134	237.5	0.475	21

Total extinctions: 0

Generation time: 15.704 sec (16.132 average)

***** Running generation 398 *****

Population's average fitness: 22.28066 stdev: 121.17748

Best fitness: 242.10515 - size: (21, 53) - species 3 - id 91945

Average adjusted fitness: 0.418

Mean genetic distance 2.373, standard deviation 0.594

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	398	117	237.5	0.394	57
3	83	133	242.1	0.442	22

Total extinctions: 0

Generation time: 16.152 sec (16.117 average)

***** Running generation 399 *****

Population's average fitness: 18.52922 stdev: 121.33511

Best fitness: 227.10893 - size: (17, 38) - species 1 - id 92139

Average adjusted fitness: 0.444

Mean genetic distance 2.394, standard deviation 0.584

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	399	116	227.1	0.410	58
3	84	134	223.5	0.479	23

Total extinctions: 0

Generation time: 16.120 sec (16.070 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-399

***** Running generation 400 *****

Population's average fitness: 24.09502 stdev: 123.40769

Best fitness: 273.14449 - size: (21, 51) - species 3 - id 92185

Average adjusted fitness: 0.411

Mean genetic distance 2.392, standard deviation 0.623

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	400	112	222.1	0.354	59
3	85	138	273.1	0.468	0

Total extinctions: 0

Generation time: 16.318 sec (16.055 average)

***** Running generation 401 *****

Population's average fitness: 24.62352 stdev: 123.16360

Best fitness: 239.16286 - size: (22, 42) - species 3 - id 92388

Average adjusted fitness: 0.477

Mean genetic distance 2.375, standard deviation 0.668

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

```

=====
1  401  115  232.5  0.453  60
3   86  135  239.2  0.501  1
Total extinctions: 0
Generation time: 16.579 sec (16.000 average)

```

***** Running generation 402 *****

```

Population's average fitness: 16.95621 stdev: 120.76921
Best fitness: 248.50757 - size: (17, 40) - species 1 - id 92790
Average adjusted fitness: 0.439
Mean genetic distance 2.416, standard deviation 0.684
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
1  402  116  248.5  0.411  61
3   87  134  231.5  0.467  2
Total extinctions: 0
Generation time: 16.195 sec (16.115 average)

```

***** Running generation 403 *****

```

Population's average fitness: 14.27162 stdev: 119.73046
Best fitness: 238.15896 - size: (17, 40) - species 1 - id 92790
Average adjusted fitness: 0.437
Mean genetic distance 2.417, standard deviation 0.630
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
1  403  117  238.2  0.411  62
3   88  133  234.1  0.464  3
Total extinctions: 0
Generation time: 16.178 sec (16.226 average)

```

***** Running generation 404 *****

```

Population's average fitness: 23.02829 stdev: 123.01670
Best fitness: 252.03036 - size: (22, 51) - species 3 - id 93328
Average adjusted fitness: 0.421
Mean genetic distance 2.441, standard deviation 0.678
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
1  404  125  242.9  0.446  63
3   89  125  252.0  0.397  4
Total extinctions: 0
Generation time: 16.513 sec (16.214 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-404

```

***** Running generation 405 *****

```

Population's average fitness: 23.95799 stdev: 124.64725
Best fitness: 239.98230 - size: (21, 48) - species 3 - id 93254
Average adjusted fitness: 0.541
Mean genetic distance 2.466, standard deviation 0.713
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
1  405  122  235.0  0.519  64

```

3 90 128 240.0 0.563 5
 Total extinctions: 0
 Generation time: 17.126 sec (16.263 average)

***** Running generation 406 *****

Population's average fitness: 17.29570 stdev: 122.63668
 Best fitness: 268.18255 - size: (24, 48) - species 3 - id 93800
 Average adjusted fitness: 0.390
 Mean genetic distance 2.466, standard deviation 0.686
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	406	119	259.3	0.363	65
3	91	131	268.2	0.417	6

Total extinctions: 0
 Generation time: 15.707 sec (16.259 average)

***** Running generation 407 *****

Population's average fitness: 23.08965 stdev: 129.62958
 Best fitness: 247.28966 - size: (17, 41) - species 1 - id 93477
 Average adjusted fitness: 0.437
 Mean genetic distance 2.441, standard deviation 0.650
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	407	123	247.3	0.443	66
3	92	127	246.1	0.431	7

Total extinctions: 0
 Generation time: 15.854 sec (16.274 average)

***** Running generation 408 *****

Population's average fitness: 20.06176 stdev: 124.30818
 Best fitness: 243.68337 - size: (21, 49) - species 3 - id 93632
 Average adjusted fitness: 0.459
 Mean genetic distance 2.430, standard deviation 0.622
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	408	125	215.7	0.465	67
3	93	125	243.7	0.452	8

Total extinctions: 0
 Generation time: 15.457 sec (16.205 average)

***** Running generation 409 *****

Population's average fitness: 26.27022 stdev: 125.54523
 Best fitness: 255.84640 - size: (17, 39) - species 1 - id 93984
 Average adjusted fitness: 0.435
 Mean genetic distance 2.453, standard deviation 0.630
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	409	122	255.8	0.415	68
3	94	128	248.4	0.455	9

Total extinctions: 0
 Generation time: 16.487 sec (16.241 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti

walker_Run1\neat-checkpoint-409

***** Running generation 410 *****

Population's average fitness: 24.29894 stdev: 124.85924
 Best fitness: 245.02559 - size: (16, 41) - species 1 - id 94733
 Average adjusted fitness: 0.514
 Mean genetic distance 2.333, standard deviation 0.679
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	410	121	245.0	0.500	69
3	95	129	229.1	0.529	10

Total extinctions: 0
 Generation time: 15.830 sec (16.192 average)

***** Running generation 411 *****

Population's average fitness: 12.66056 stdev: 123.33640
 Best fitness: 248.43741 - size: (17, 39) - species 1 - id 93984
 Average adjusted fitness: 0.468
 Mean genetic distance 2.292, standard deviation 0.627
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	411	120	248.4	0.445	70
3	96	130	246.1	0.491	11

Total extinctions: 0
 Generation time: 16.250 sec (16.160 average)

***** Running generation 412 *****

Population's average fitness: 17.49602 stdev: 129.49950
 Best fitness: 258.92208 - size: (17, 45) - species 1 - id 95212
 Average adjusted fitness: 0.406
 Mean genetic distance 2.321, standard deviation 0.630
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	412	122	258.9	0.402	71
3	97	128	244.8	0.411	12

Total extinctions: 0
 Generation time: 15.133 sec (16.053 average)

***** Running generation 413 *****

Population's average fitness: 29.04504 stdev: 124.73538
 Best fitness: 257.54389 - size: (23, 50) - species 3 - id 95300
 Average adjusted fitness: 0.502
 Mean genetic distance 2.379, standard deviation 0.581
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	413	121	245.8	0.479	72
3	98	129	257.5	0.526	13

Total extinctions: 0
 Generation time: 16.255 sec (16.061 average)

***** Running generation 414 *****

Population's average fitness: 23.71168 stdev: 125.37020
 Best fitness: 240.39882 - size: (22, 52) - species 3 - id 95668
 Average adjusted fitness: 0.425
 Mean genetic distance 2.298, standard deviation 0.630
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	414	122	233.7	0.412	73
3	99	128	240.4	0.437	14

Total extinctions: 0
 Generation time: 15.282 sec (15.938 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-414

***** Running generation 415 *****

Population's average fitness: 28.92484 stdev: 126.87126
 Best fitness: 242.00018 - size: (23, 50) - species 3 - id 95357
 Average adjusted fitness: 0.474
 Mean genetic distance 2.291, standard deviation 0.705
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	415	124	222.0	0.475	74
3	100	126	242.0	0.473	15

Total extinctions: 0
 Generation time: 15.888 sec (15.814 average)

***** Running generation 416 *****

Population's average fitness: 14.02605 stdev: 122.58138
 Best fitness: 245.68653 - size: (17, 41) - species 1 - id 95553
 Average adjusted fitness: 0.432
 Mean genetic distance 2.294, standard deviation 0.694
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	416	126	245.7	0.445	75
3	101	124	236.6	0.419	16

Total extinctions: 0
 Generation time: 15.596 sec (15.803 average)

***** Running generation 417 *****

Population's average fitness: 28.02883 stdev: 127.05295
 Best fitness: 245.54064 - size: (18, 43) - species 1 - id 96317
 Average adjusted fitness: 0.488
 Mean genetic distance 2.382, standard deviation 0.630
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	417	127	245.5	0.497	76
3	102	123	236.1	0.479	17

Total extinctions: 0
 Generation time: 16.761 sec (15.894 average)

***** Running generation 418 *****

Population's average fitness: 26.43818 stdev: 130.61382
 Best fitness: 250.67447 - size: (25, 49) - species 3 - id 96443

Average adjusted fitness: 0.450
 Mean genetic distance 2.417, standard deviation 0.635
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	418	121	233.5	0.416	77
3	103	129	250.7	0.483	18

 Total extinctions: 0
 Generation time: 15.727 sec (15.921 average)

***** Running generation 419 *****

Population's average fitness: 15.83972 stdev: 128.67744
 Best fitness: 249.26378 - size: (22, 45) - species 3 - id 96262
 Average adjusted fitness: 0.416
 Mean genetic distance 2.355, standard deviation 0.630
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	419	120	229.5	0.398	78
3	104	130	249.3	0.435	19

 Total extinctions: 0
 Generation time: 15.265 sec (15.799 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-419

***** Running generation 420 *****

Population's average fitness: 16.58455 stdev: 124.68727
 Best fitness: 235.30248 - size: (18, 41) - species 1 - id 94436
 Average adjusted fitness: 0.465
 Mean genetic distance 2.391, standard deviation 0.575
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	420	123	235.3	0.469	79
3	105	127	227.9	0.461	20

 Total extinctions: 0
 Generation time: 15.762 sec (15.792 average)

***** Running generation 421 *****

Population's average fitness: 26.56825 stdev: 125.02065
 Best fitness: 242.04381 - size: (17, 40) - species 1 - id 97314
 Average adjusted fitness: 0.505
 Mean genetic distance 2.400, standard deviation 0.584
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	421	124	242.0	0.507	80
3	106	126	241.6	0.503	21

 Total extinctions: 0
 Generation time: 16.307 sec (15.798 average)

***** Running generation 422 *****

Population's average fitness: -0.69437 stdev: 117.38440
 Best fitness: 247.60091 - size: (23, 49) - species 3 - id 97402
 Average adjusted fitness: 0.386
 Mean genetic distance 2.364, standard deviation 0.600

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	422	121	247.5	0.367	81
3	107	129	247.6	0.406	22

Total extinctions: 0

Generation time: 15.196 sec (15.804 average)

***** Running generation 423 *****

Population's average fitness: 8.86667 stdev: 120.45766

Best fitness: 232.39850 - size: (23, 51) - species 3 - id 97127

Average adjusted fitness: 0.405

Mean genetic distance 2.315, standard deviation 0.686

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	423	116	227.9	0.361	82
3	108	134	232.4	0.449	23

Total extinctions: 0

Generation time: 15.118 sec (15.690 average)

***** Running generation 424 *****

Population's average fitness: 26.35677 stdev: 123.83562

Best fitness: 254.52791 - size: (22, 48) - species 3 - id 98020

Average adjusted fitness: 0.440

Mean genetic distance 2.329, standard deviation 0.652

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	424	115	234.0	0.399	83
3	109	135	254.5	0.480	24

Total extinctions: 0

Generation time: 16.515 sec (15.814 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-424

***** Running generation 425 *****

Population's average fitness: 34.29367 stdev: 126.45426

Best fitness: 249.17879 - size: (23, 48) - species 3 - id 97714

Average adjusted fitness: 0.493

Mean genetic distance 2.294, standard deviation 0.644

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	425	117	232.1	0.471	84
3	110	133	249.2	0.516	25

Total extinctions: 0

Generation time: 16.690 sec (15.894 average)

***** Running generation 426 *****

Population's average fitness: 20.05516 stdev: 128.37217

Best fitness: 266.65372 - size: (22, 48) - species 3 - id 98020

Average adjusted fitness: 0.392

Mean genetic distance 2.314, standard deviation 0.633

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

```

=====
====  ===  =====  =====  =====
      1  426   115    242.2    0.356    85
      3  111   135    266.7    0.427    26
Total extinctions: 0
Generation time: 15.739 sec (15.908 average)

```

***** Running generation 427 *****

```

Population's average fitness: 30.49526 stdev: 123.83612
Best fitness: 238.21605 - size: (23, 50) - species 3 - id 98408
Average adjusted fitness: 0.470
Mean genetic distance 2.336, standard deviation 0.662
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      1  427   119    220.0    0.463    86
      3  112   131    238.2    0.477    27
Total extinctions: 0
Generation time: 16.321 sec (15.864 average)

```

***** Running generation 428 *****

```

Population's average fitness: 8.68781 stdev: 122.69988
Best fitness: 235.38081 - size: (22, 47) - species 3 - id 98915
Average adjusted fitness: 0.417
Mean genetic distance 2.398, standard deviation 0.604
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      1  428   118    221.2    0.393    87
      3  113   132    235.4    0.440    28
Total extinctions: 0
Generation time: 14.862 sec (15.777 average)

```

***** Running generation 429 *****

```

Population's average fitness: 28.08749 stdev: 127.19427
Best fitness: 244.79203 - size: (22, 51) - species 3 - id 98722
Average adjusted fitness: 0.425
Mean genetic distance 2.410, standard deviation 0.669
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      1  429   115    239.7    0.382    88
      3  114   135    244.8    0.468    29
Total extinctions: 0
Generation time: 16.072 sec (15.858 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-429

```

***** Running generation 430 *****

```

Population's average fitness: 15.23617 stdev: 124.67300
Best fitness: 273.60826 - size: (24, 54) - species 3 - id 98847
Average adjusted fitness: 0.361
Mean genetic distance 2.399, standard deviation 0.694
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      1  430   118    239.6    0.347    89

```


3 115 132 273.6 0.375 0
 Total extinctions: 0
 Generation time: 15.193 sec (15.801 average)

***** Running generation 431 *****

Population's average fitness: 12.65898 stdev: 123.40164
 Best fitness: 246.92329 - size: (19, 42) - species 1 - id 99483
 Average adjusted fitness: 0.501
 Mean genetic distance 2.423, standard deviation 0.655
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	431	119	246.9	0.478	90
3	116	131	237.7	0.524	1

Total extinctions: 0
 Generation time: 16.078 sec (15.778 average)

***** Running generation 432 *****

Population's average fitness: 20.18448 stdev: 125.62486
 Best fitness: 242.96760 - size: (22, 51) - species 3 - id 99751
 Average adjusted fitness: 0.406
 Mean genetic distance 2.468, standard deviation 0.581
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	432	116	234.4	0.369	91
3	117	134	243.0	0.442	2

Total extinctions: 0
 Generation time: 15.325 sec (15.791 average)

***** Running generation 433 *****

Population's average fitness: 27.57204 stdev: 126.60150
 Best fitness: 235.97027 - size: (21, 51) - species 3 - id 100014
 Average adjusted fitness: 0.478
 Mean genetic distance 2.466, standard deviation 0.600
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	433	112	228.3	0.414	92
3	118	138	236.0	0.541	3

Total extinctions: 0
 Generation time: 16.058 sec (15.885 average)

***** Running generation 434 *****

Population's average fitness: 31.15557 stdev: 124.52429
 Best fitness: 252.54090 - size: (23, 53) - species 3 - id 100292
 Average adjusted fitness: 0.441
 Mean genetic distance 2.434, standard deviation 0.616
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	434	116	225.0	0.422	93
3	119	134	252.5	0.460	4

Total extinctions: 0
 Generation time: 16.549 sec (15.889 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti

walker_Run1\neat-checkpoint-434

***** Running generation 435 *****

Population's average fitness: 24.25109 stdev: 126.16186
 Best fitness: 232.65409 - size: (19, 48) - species 1 - id 100398
 Average adjusted fitness: 0.464
 Mean genetic distance 2.423, standard deviation 0.589
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	435	117	232.7	0.439	94
3	120	133	228.1	0.489	5

Total extinctions: 0
 Generation time: 16.576 sec (15.877 average)

***** Running generation 436 *****

Population's average fitness: 17.92966 stdev: 127.36650
 Best fitness: 256.14912 - size: (23, 52) - species 3 - id 100280
 Average adjusted fitness: 0.421
 Mean genetic distance 2.381, standard deviation 0.586
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	436	115	231.8	0.384	95
3	121	135	256.1	0.459	6

Total extinctions: 0
 Generation time: 16.269 sec (15.930 average)

***** Running generation 437 *****

Population's average fitness: 34.14478 stdev: 124.22962
 Best fitness: 254.88685 - size: (22, 53) - species 3 - id 100948
 Average adjusted fitness: 0.438
 Mean genetic distance 2.387, standard deviation 0.653
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	437	119	249.6	0.431	96
3	122	131	254.9	0.446	7

Total extinctions: 0
 Generation time: 19.837 sec (16.282 average)

***** Running generation 438 *****

Population's average fitness: 35.19567 stdev: 124.07734
 Best fitness: 273.52033 - size: (23, 49) - species 3 - id 101256
 Average adjusted fitness: 0.457
 Mean genetic distance 2.376, standard deviation 0.729
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	438	113	252.1	0.394	97
3	123	137	273.5	0.520	8

Total extinctions: 0
 Generation time: 22.039 sec (17.000 average)

***** Running generation 439 *****

Population's average fitness: 20.85874 stdev: 122.02954
 Best fitness: 265.25229 - size: (21, 46) - species 3 - id 101370
 Average adjusted fitness: 0.399
 Mean genetic distance 2.478, standard deviation 0.633
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	439	116	235.0	0.383	98
3	124	134	265.3	0.416	9

Total extinctions: 0
 Generation time: 24.589 sec (17.851 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-439

***** Running generation 440 *****

Population's average fitness: 10.82808 stdev: 123.22598
 Best fitness: 251.86295 - size: (23, 49) - species 3 - id 101256
 Average adjusted fitness: 0.442
 Mean genetic distance 2.477, standard deviation 0.666
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	440	117	233.2	0.413	99
3	125	133	251.9	0.471	10

Total extinctions: 0
 Generation time: 17.352 sec (18.067 average)

***** Running generation 441 *****

Population's average fitness: 30.28466 stdev: 128.53115
 Best fitness: 232.72401 - size: (19, 43) - species 1 - id 101531
 Average adjusted fitness: 0.484
 Mean genetic distance 2.435, standard deviation 0.764
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	441	122	232.7	0.495	100
3	126	128	227.8	0.473	11

Total extinctions: 0
 Generation time: 17.247 sec (18.184 average)

***** Running generation 442 *****

Population's average fitness: 33.93993 stdev: 128.85231
 Best fitness: 272.55269 - size: (20, 44) - species 1 - id 102085
 Average adjusted fitness: 0.429
 Mean genetic distance 2.513, standard deviation 0.661
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	442	123	272.6	0.421	101
3	127	127	257.0	0.436	12

Total extinctions: 0
 Generation time: 17.430 sec (18.395 average)

***** Running generation 443 *****

Population's average fitness: 33.13951 stdev: 129.64158
 Best fitness: 258.78314 - size: (22, 44) - species 3 - id 102187

Average adjusted fitness: 0.439
 Mean genetic distance 2.536, standard deviation 0.614
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	443	127	239.8	0.458	102
3	128	123	258.8	0.419	13

 Total extinctions: 0
 Generation time: 17.603 sec (18.549 average)

***** Running generation 444 *****

Population's average fitness: 36.68471 stdev: 130.16856
 Best fitness: 254.96126 - size: (22, 43) - species 3 - id 102534
 Average adjusted fitness: 0.454
 Mean genetic distance 2.525, standard deviation 0.596
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	444	124	254.6	0.438	103
3	129	126	255.0	0.469	14

 Total extinctions: 0
 Generation time: 17.219 sec (18.616 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-444

***** Running generation 445 *****

Population's average fitness: 14.51820 stdev: 126.54088
 Best fitness: 253.65652 - size: (24, 48) - species 3 - id 102801
 Average adjusted fitness: 0.469
 Mean genetic distance 2.512, standard deviation 0.651
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	445	122	247.0	0.448	104
3	130	128	253.7	0.489	15

 Total extinctions: 0
 Generation time: 16.391 sec (18.598 average)

***** Running generation 446 *****

Population's average fitness: 29.69442 stdev: 129.77479
 Best fitness: 249.01538 - size: (22, 50) - species 3 - id 103040
 Average adjusted fitness: 0.437
 Mean genetic distance 2.513, standard deviation 0.666
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	446	120	241.9	0.412	105
3	131	130	249.0	0.462	16

 Total extinctions: 0
 Generation time: 17.178 sec (18.689 average)

***** Running generation 447 *****

Population's average fitness: 42.33037 stdev: 124.72719
 Best fitness: 247.00719 - size: (16, 41) - species 1 - id 103193
 Average adjusted fitness: 0.490
 Mean genetic distance 2.588, standard deviation 0.674

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	447	119	247.0	0.463	106
3	132	131	246.6	0.517	17

Total extinctions: 0

Generation time: 18.908 sec (18.596 average)

***** Running generation 448 *****

Population's average fitness: 34.26704 stdev: 127.10339

Best fitness: 239.78284 - size: (16, 42) - species 1 - id 103557

Average adjusted fitness: 0.487

Mean genetic distance 2.655, standard deviation 0.643

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	448	122	239.8	0.485	107
3	133	128	228.7	0.489	18

Total extinctions: 0

Generation time: 17.548 sec (18.147 average)

***** Running generation 449 *****

Population's average fitness: 24.95008 stdev: 128.60518

Best fitness: 251.49353 - size: (23, 53) - species 3 - id 103396

Average adjusted fitness: 0.478

Mean genetic distance 2.628, standard deviation 0.695

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	449	121	238.8	0.466	108
3	134	129	251.5	0.489	19

Total extinctions: 0

Generation time: 17.276 sec (17.415 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-449

***** Running generation 450 *****

Population's average fitness: 20.06937 stdev: 122.29575

Best fitness: 248.95356 - size: (17, 40) - species 1 - id 103740

Average adjusted fitness: 0.406

Mean genetic distance 2.718, standard deviation 0.562

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
1	450	119	249.0	0.378	109
3	135	131	243.1	0.434	20

Total extinctions: 0

Generation time: 16.975 sec (17.378 average)

***** Running generation 451 *****

Population's average fitness: 22.55830 stdev: 123.14176

Best fitness: 263.44044 - size: (16, 42) - species 1 - id 103469

Average adjusted fitness: 0.403

Mean genetic distance 2.741, standard deviation 0.552

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

====	===	====	=====	=====	=====
1	451	122	263.4	0.401	110
3	136	119	237.9	0.404	21
4	0	9	--	--	0

Total extinctions: 0

Generation time: 17.199 sec (17.373 average)

***** Running generation 452 *****

Population's average fitness: 18.60301 stdev: 123.12390

Best fitness: 261.55728 - size: (16, 42) - species 1 - id 103469

Average adjusted fitness: 0.415

Mean genetic distance 2.693, standard deviation 0.523

Population of 251 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	=====
1	452	98	261.6	0.369	111
3	137	108	241.0	0.419	22
4	1	45	207.9	0.459	0

Total extinctions: 0

Generation time: 16.790 sec (17.309 average)

***** Running generation 453 *****

Population's average fitness: 26.44919 stdev: 126.29495

Best fitness: 238.57612 - size: (23, 53) - species 3 - id 103095

Average adjusted fitness: 0.435

Mean genetic distance 2.625, standard deviation 0.600

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	=====
1	453	90	234.3	0.425	112
3	138	96	238.6	0.431	23
4	2	64	214.4	0.448	0

Total extinctions: 0

Generation time: 17.099 sec (17.258 average)

***** Running generation 454 *****

Population's average fitness: 36.97278 stdev: 125.28592

Best fitness: 255.32114 - size: (23, 56) - species 3 - id 104840

Average adjusted fitness: 0.491

Mean genetic distance 2.622, standard deviation 0.664

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	=====
1	454	88	239.0	0.507	113
3	139	77	255.3	0.486	24
4	3	85	227.3	0.482	0

Total extinctions: 0

Generation time: 18.063 sec (17.343 average)

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walker_Run1\neat-checkpoint-454

***** Running generation 455 *****

Population's average fitness: 37.47520 stdev: 126.96064

Best fitness: 240.74603 - size: (23, 53) - species 3 - id 103095

Species 1 with 88 members is stagnated: removing it

Average adjusted fitness: 0.461
 Mean genetic distance 2.300, standard deviation 0.481
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	140	130	240.7	0.504	25
4	4	120	232.5	0.417	0

Total extinctions: 0
 Generation time: 17.513 sec (17.455 average)

***** Running generation 456 *****

Population's average fitness: 41.93149 stdev: 125.00391
 Best fitness: 259.42659 - size: (22, 49) - species 3 - id 105318
 Average adjusted fitness: 0.450
 Mean genetic distance 2.205, standard deviation 0.518
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	141	132	259.4	0.480	26
4	5	118	242.1	0.421	0

Total extinctions: 0
 Generation time: 18.431 sec (17.580 average)

***** Running generation 457 *****

Population's average fitness: 35.48200 stdev: 123.08381
 Best fitness: 245.64486 - size: (23, 50) - species 3 - id 105573
 Average adjusted fitness: 0.456
 Mean genetic distance 2.224, standard deviation 0.502
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	142	131	245.6	0.475	27
4	6	119	238.5	0.437	1

Total extinctions: 0
 Generation time: 19.109 sec (17.600 average)

***** Running generation 458 *****

Population's average fitness: 22.74143 stdev: 124.77294
 Best fitness: 247.63351 - size: (23, 51) - species 4 - id 105445
 Average adjusted fitness: 0.416
 Mean genetic distance 2.260, standard deviation 0.456
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	143	132	237.1	0.441	28
4	7	118	247.6	0.390	0

Total extinctions: 0
 Generation time: 17.233 sec (17.569 average)

***** Running generation 459 *****

Population's average fitness: 37.87510 stdev: 127.96908
 Best fitness: 247.36523 - size: (23, 46) - species 3 - id 105900
 Average adjusted fitness: 0.443
 Mean genetic distance 2.310, standard deviation 0.457
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

```

=====
====  ===  =====  =====  =====
3  144   136    247.4    0.495    29
4    8   114    241.0    0.391    1

```

Total extinctions: 0

Generation time: 17.043 sec (17.546 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-459

***** Running generation 460 *****

Population's average fitness: 28.58716 stdev: 122.63551

Best fitness: 256.01540 - size: (23, 54) - species 3 - id 106266

Average adjusted fitness: 0.410

Mean genetic distance 2.294, standard deviation 0.490

Population of 250 members in 2 species:

```

ID  age  size  fitness  adj fit  stag
=====
3  145   133   256.0    0.427   30
4    9   117   226.2    0.393    2

```

Total extinctions: 0

Generation time: 18.001 sec (17.648 average)

***** Running generation 461 *****

Population's average fitness: 29.63923 stdev: 120.98244

Best fitness: 253.95751 - size: (23, 50) - species 3 - id 106493

Average adjusted fitness: 0.415

Mean genetic distance 2.359, standard deviation 0.460

Population of 250 members in 2 species:

```

ID  age  size  fitness  adj fit  stag
=====
3  146   134   254.0    0.443   31
4   10   116   248.2    0.386    0

```

Total extinctions: 0

Generation time: 18.514 sec (17.780 average)

***** Running generation 462 *****

Population's average fitness: 13.88682 stdev: 124.43503

Best fitness: 256.25978 - size: (21, 43) - species 4 - id 106547

Average adjusted fitness: 0.379

Mean genetic distance 2.291, standard deviation 0.436

Population of 250 members in 2 species:

```

ID  age  size  fitness  adj fit  stag
=====
3  147   128   246.9    0.372   32
4   11   122   256.3    0.387    0

```

Total extinctions: 0

Generation time: 16.585 sec (17.759 average)

***** Running generation 463 *****

Population's average fitness: 31.43078 stdev: 122.15000

Best fitness: 238.22156 - size: (26, 59) - species 3 - id 106648

Average adjusted fitness: 0.451

Mean genetic distance 2.206, standard deviation 0.485

Population of 250 members in 2 species:

```

ID  age  size  fitness  adj fit  stag
=====
3  148   124   238.2    0.435   33

```


4 12 126 233.5 0.468 1
 Total extinctions: 0
 Generation time: 17.606 sec (17.810 average)

***** Running generation 464 *****

Population's average fitness: 24.79200 stdev: 120.86706
 Best fitness: 239.56259 - size: (22, 52) - species 3 - id 106823
 Average adjusted fitness: 0.432
 Mean genetic distance 2.194, standard deviation 0.503
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	149	123	239.6	0.429	34
4	13	127	235.7	0.436	2

Total extinctions: 0
 Generation time: 17.850 sec (17.789 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-464

***** Running generation 465 *****

Population's average fitness: 30.57388 stdev: 124.84087
 Best fitness: 255.11623 - size: (25, 61) - species 3 - id 107334
 Average adjusted fitness: 0.434
 Mean genetic distance 2.210, standard deviation 0.441
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	150	122	255.1	0.415	35
4	14	128	224.1	0.453	3

Total extinctions: 0
 Generation time: 17.211 sec (17.758 average)

***** Running generation 466 *****

Population's average fitness: 30.08838 stdev: 125.67852
 Best fitness: 242.51140 - size: (23, 54) - species 3 - id 107336
 Average adjusted fitness: 0.442
 Mean genetic distance 2.290, standard deviation 0.407
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	151	121	242.5	0.412	36
4	15	129	242.0	0.473	4

Total extinctions: 0
 Generation time: 17.504 sec (17.666 average)

***** Running generation 467 *****

Population's average fitness: 33.88502 stdev: 123.17212
 Best fitness: 234.76803 - size: (21, 43) - species 4 - id 107678
 Average adjusted fitness: 0.521
 Mean genetic distance 2.334, standard deviation 0.408
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	152	120	220.8	0.494	37
4	16	130	234.8	0.548	5

Total extinctions: 0

Generation time: 19.362 sec (17.691 average)

***** Running generation 468 *****

Population's average fitness: 38.46042 stdev: 122.60072
 Best fitness: 265.53927 - size: (25, 61) - species 3 - id 107334
 Average adjusted fitness: 0.431
 Mean genetic distance 2.421, standard deviation 0.397
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	153	118	265.5	0.400	38
4	17	132	248.7	0.461	6

Total extinctions: 0
 Generation time: 19.522 sec (17.920 average)

***** Running generation 469 *****

Population's average fitness: 39.09488 stdev: 127.64949
 Best fitness: 239.15990 - size: (25, 60) - species 3 - id 108288
 Average adjusted fitness: 0.486
 Mean genetic distance 2.442, standard deviation 0.424
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	154	115	239.2	0.414	39
4	18	135	228.4	0.559	7

Total extinctions: 0
 Generation time: 18.220 sec (18.038 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-469

***** Running generation 470 *****

Population's average fitness: 20.91495 stdev: 128.05322
 Best fitness: 244.51399 - size: (22, 48) - species 4 - id 108213
 Average adjusted fitness: 0.429
 Mean genetic distance 2.448, standard deviation 0.445
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	155	119	235.5	0.437	40
4	19	131	244.5	0.422	8

Total extinctions: 0
 Generation time: 17.000 sec (17.937 average)

***** Running generation 471 *****

Population's average fitness: 43.81657 stdev: 130.25198
 Best fitness: 264.64899 - size: (21, 46) - species 3 - id 108614
 Average adjusted fitness: 0.493
 Mean genetic distance 2.407, standard deviation 0.492
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	156	107	264.6	0.493	41
4	20	143	251.5	0.494	9

Total extinctions: 0
 Generation time: 18.183 sec (17.904 average)

***** Running generation 472 *****

Population's average fitness: 41.96225 stdev: 127.43275
 Best fitness: 261.30891 - size: (22, 46) - species 3 - id 108633
 Average adjusted fitness: 0.510
 Mean genetic distance 2.376, standard deviation 0.482
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	157	118	261.3	0.528	42
4	21	132	252.5	0.492	10

Total extinctions: 0
 Generation time: 18.561 sec (18.102 average)

***** Running generation 473 *****

Population's average fitness: 27.59681 stdev: 126.76601
 Best fitness: 266.75058 - size: (22, 51) - species 4 - id 108877
 Average adjusted fitness: 0.486
 Mean genetic distance 2.361, standard deviation 0.498
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	158	120	251.7	0.476	43
4	22	130	266.8	0.496	0

Total extinctions: 0
 Generation time: 17.089 sec (18.050 average)

***** Running generation 474 *****

Population's average fitness: 38.89380 stdev: 132.30881
 Best fitness: 280.48480 - size: (26, 65) - species 3 - id 109050
 Average adjusted fitness: 0.431
 Mean genetic distance 2.398, standard deviation 0.486
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	159	119	280.5	0.414	0
4	23	131	231.6	0.449	1

Total extinctions: 0
 Generation time: 18.337 sec (18.099 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-474

***** Running generation 475 *****

Population's average fitness: 25.64552 stdev: 129.09365
 Best fitness: 251.23902 - size: (25, 63) - species 3 - id 109322
 Average adjusted fitness: 0.411
 Mean genetic distance 2.447, standard deviation 0.443
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	160	117	251.2	0.376	1
4	24	133	239.6	0.446	2

Total extinctions: 0
 Generation time: 17.501 sec (18.128 average)

***** Running generation 476 *****

Population's average fitness: 19.24840 stdev: 132.85210
 Best fitness: 253.85102 - size: (25, 63) - species 3 - id 109322
 Average adjusted fitness: 0.457
 Mean genetic distance 2.475, standard deviation 0.472
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	161	126	253.9	0.443	2
4	25	124	230.9	0.472	3

Total extinctions: 0
 Generation time: 16.344 sec (18.012 average)

***** Running generation 477 *****

Population's average fitness: 25.64686 stdev: 128.93858
 Best fitness: 259.35267 - size: (24, 61) - species 3 - id 110127
 Average adjusted fitness: 0.482
 Mean genetic distance 2.590, standard deviation 0.391
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	162	110	259.4	0.480	3
4	26	140	253.7	0.484	4

Total extinctions: 0
 Generation time: 16.757 sec (17.751 average)

***** Running generation 478 *****

Population's average fitness: 25.79473 stdev: 126.47904
 Best fitness: 278.80103 - size: (21, 46) - species 3 - id 109946
 Average adjusted fitness: 0.386
 Mean genetic distance 2.561, standard deviation 0.404
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	163	122	278.8	0.400	4
4	27	128	240.6	0.371	5

Total extinctions: 0
 Generation time: 17.420 sec (17.541 average)

***** Running generation 479 *****

Population's average fitness: 15.99638 stdev: 125.55312
 Best fitness: 265.12097 - size: (24, 52) - species 3 - id 110556
 Average adjusted fitness: 0.437
 Mean genetic distance 2.484, standard deviation 0.442
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	164	124	265.1	0.440	5
4	28	126	256.2	0.433	6

Total extinctions: 0
 Generation time: 16.610 sec (17.380 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-479

***** Running generation 480 *****

Population's average fitness: 28.69407 stdev: 121.77935
 Best fitness: 259.08001 - size: (25, 64) - species 3 - id 110840

Average adjusted fitness: 0.444
 Mean genetic distance 2.443, standard deviation 0.492
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	165	122	259.1	0.429	6
4	29	128	239.3	0.459	7

Total extinctions: 0
 Generation time: 17.813 sec (17.461 average)

***** Running generation 481 *****

Population's average fitness: 17.01624 stdev: 130.44511
 Best fitness: 254.07476 - size: (26, 55) - species 3 - id 111058
 Average adjusted fitness: 0.426
 Mean genetic distance 2.464, standard deviation 0.449
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
3	166	123	254.1	0.416	7
4	30	127	240.7	0.436	8

Total extinctions: 0
 Generation time: 16.538 sec (17.297 average)

***** Running generation 482 *****

Population's average fitness: 31.48469 stdev: 123.18906
 Best fitness: 257.08216 - size: (25, 56) - species 3 - id 111258
 Average adjusted fitness: 0.448
 Mean genetic distance 2.476, standard deviation 0.414
 Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
3	167	77	257.1	0.421	8
4	31	146	241.1	0.475	9
5	0	27	--	--	0

Total extinctions: 0
 Generation time: 18.284 sec (17.269 average)

***** Running generation 483 *****

Population's average fitness: 28.82782 stdev: 128.21398
 Best fitness: 264.07959 - size: (26, 62) - species 3 - id 111262
 Average adjusted fitness: 0.457
 Mean genetic distance 2.514, standard deviation 0.476
 Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
3	168	17	264.1	0.482	9
4	32	110	241.0	0.441	10
5	1	122	206.5	0.448	0

Total extinctions: 0
 Generation time: 18.120 sec (17.372 average)

***** Running generation 484 *****

Population's average fitness: 34.42837 stdev: 122.67942
 Best fitness: 245.79035 - size: (23, 53) - species 5 - id 111510
 Average adjusted fitness: 0.456
 Mean genetic distance 2.405, standard deviation 0.505

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
3	169	35	235.5	0.411	10
4	33	100	237.4	0.490	11
5	2	115	245.8	0.467	0

Total extinctions: 0

Generation time: 18.427 sec (17.381 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-484

***** Running generation 485 *****

Population's average fitness: 36.85025 stdev: 126.75082

Best fitness: 262.10903 - size: (26, 55) - species 5 - id 111058

Average adjusted fitness: 0.457

Mean genetic distance 2.352, standard deviation 0.543

Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
3	170	108	243.5	0.514	11
4	34	94	242.2	0.486	12
5	3	47	262.1	0.370	0

Total extinctions: 0

Generation time: 18.654 sec (17.497 average)

***** Running generation 486 *****

Population's average fitness: 32.75950 stdev: 129.34915

Best fitness: 269.52402 - size: (24, 51) - species 4 - id 111430

Average adjusted fitness: 0.436

Mean genetic distance 2.291, standard deviation 0.600

Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
3	171	93	246.8	0.400	12
4	35	93	269.5	0.482	0
5	4	63	266.7	0.425	0

Total extinctions: 0

Generation time: 18.010 sec (17.663 average)

***** Running generation 487 *****

Population's average fitness: 32.28236 stdev: 129.38879

Best fitness: 266.23294 - size: (24, 56) - species 5 - id 112014

Average adjusted fitness: 0.431

Mean genetic distance 2.319, standard deviation 0.615

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
3	172	91	251.4	0.457	13
4	36	88	239.5	0.426	1
5	5	71	266.2	0.408	1

Total extinctions: 0

Generation time: 17.708 sec (17.758 average)

***** Running generation 488 *****

Population's average fitness: 43.02310 stdev: 124.06313

Best fitness: 259.99314 - size: (24, 60) - species 3 - id 111602

Average adjusted fitness: 0.475

Mean genetic distance 2.319, standard deviation 0.599

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
3	173	90	260.0	0.525	14
4	37	82	245.8	0.436	2
5	6	78	255.6	0.466	2

Total extinctions: 0

Generation time: 19.168 sec (17.933 average)

***** Running generation 489 *****

Population's average fitness: 33.62092 stdev: 133.47543

Best fitness: 268.23379 - size: (23, 55) - species 5 - id 112201

Average adjusted fitness: 0.467

Mean genetic distance 2.377, standard deviation 0.532

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
3	174	91	245.1	0.460	15
4	38	84	248.7	0.487	3
5	7	75	268.2	0.454	0

Total extinctions: 0

Generation time: 17.017 sec (17.974 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-489

***** Running generation 490 *****

Population's average fitness: 49.24634 stdev: 130.85947

Best fitness: 275.92310 - size: (23, 45) - species 4 - id 112740

Average adjusted fitness: 0.459

Mean genetic distance 2.402, standard deviation 0.540

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
3	175	86	251.3	0.411	16
4	39	87	275.9	0.495	0
5	8	77	248.0	0.472	1

Total extinctions: 0

Generation time: 18.583 sec (18.051 average)

***** Running generation 491 *****

Population's average fitness: 33.40886 stdev: 129.24911

Best fitness: 260.73017 - size: (27, 64) - species 3 - id 113219

Average adjusted fitness: 0.484

Mean genetic distance 2.418, standard deviation 0.583

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
3	176	89	260.7	0.476	17
4	40	88	246.5	0.516	1
5	9	73	258.6	0.462	2

Total extinctions: 0

Generation time: 17.627 sec (18.160 average)

***** Running generation 492 *****

Population's average fitness: 43.44179 stdev: 130.36479
 Best fitness: 270.39170 - size: (26, 58) - species 3 - id 113548
 Average adjusted fitness: 0.466
 Mean genetic distance 2.389, standard deviation 0.562
 Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
3	177	80	270.4	0.449	18
4	41	86	240.3	0.473	2
5	10	84	247.3	0.476	3

Total extinctions: 0
 Generation time: 18.427 sec (18.174 average)

***** Running generation 493 *****

Population's average fitness: 29.82493 stdev: 130.90218
 Best fitness: 267.15868 - size: (27, 62) - species 3 - id 113505
 Average adjusted fitness: 0.446
 Mean genetic distance 2.361, standard deviation 0.534
 Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
3	178	95	267.2	0.460	19
4	42	89	228.5	0.490	3
5	11	66	240.1	0.389	4

Total extinctions: 0
 Generation time: 17.358 sec (18.098 average)

***** Running generation 494 *****

Population's average fitness: 45.12989 stdev: 126.19922
 Best fitness: 270.01892 - size: (24, 57) - species 5 - id 113160

Species 3 with 95 members is stagnated: removing it
 Average adjusted fitness: 0.453
 Mean genetic distance 2.399, standard deviation 0.633
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	43	136	262.1	0.476	4
5	12	114	270.0	0.429	0

Total extinctions: 0
 Generation time: 18.591 sec (18.114 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-494

***** Running generation 495 *****

Population's average fitness: 18.47262 stdev: 124.49294
 Best fitness: 255.95440 - size: (22, 43) - species 4 - id 113352
 Average adjusted fitness: 0.385
 Mean genetic distance 2.430, standard deviation 0.656
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	44	126	256.0	0.359	5
5	13	124	252.3	0.410	1

Total extinctions: 0
 Generation time: 16.621 sec (17.911 average)

***** Running generation 496 *****

Population's average fitness: 35.79978 stdev: 124.31185
 Best fitness: 244.11576 - size: (23, 50) - species 5 - id 114193
 Average adjusted fitness: 0.441
 Mean genetic distance 2.465, standard deviation 0.648
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	45	127	234.6	0.446	6
5	14	123	244.1	0.436	2

Total extinctions: 0
 Generation time: 18.728 sec (17.983 average)

***** Running generation 497 *****

Population's average fitness: 38.19518 stdev: 120.16076
 Best fitness: 254.00015 - size: (23, 44) - species 5 - id 114280
 Average adjusted fitness: 0.485
 Mean genetic distance 2.399, standard deviation 0.675
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	46	128	246.1	0.493	7
5	15	122	254.0	0.477	3

Total extinctions: 0
 Generation time: 18.620 sec (18.074 average)

***** Running generation 498 *****

Population's average fitness: 32.81720 stdev: 127.97650
 Best fitness: 254.99203 - size: (25, 54) - species 5 - id 114850
 Average adjusted fitness: 0.444
 Mean genetic distance 2.338, standard deviation 0.727
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	47	131	252.7	0.473	8
5	16	119	255.0	0.414	4

Total extinctions: 0
 Generation time: 17.245 sec (17.882 average)

***** Running generation 499 *****

Population's average fitness: 37.24244 stdev: 124.84738
 Best fitness: 241.34473 - size: (24, 49) - species 5 - id 115129
 Average adjusted fitness: 0.448
 Mean genetic distance 2.378, standard deviation 0.710
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	48	126	236.5	0.430	9
5	17	124	241.3	0.465	5

Total extinctions: 0
 Generation time: 18.061 sec (17.986 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-499

***** Running generation 500 *****

Population's average fitness: 39.70497 stdev: 125.84115
 Best fitness: 249.92028 - size: (24, 51) - species 4 - id 115157
 Average adjusted fitness: 0.451
 Mean genetic distance 2.343, standard deviation 0.755
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	49	128	249.9	0.469	10
5	18	122	244.7	0.433	6

Total extinctions: 0
 Generation time: 18.237 sec (17.952 average)

***** Running generation 501 *****

Population's average fitness: 34.68439 stdev: 126.62668
 Best fitness: 255.13912 - size: (23, 52) - species 5 - id 115484
 Average adjusted fitness: 0.434
 Mean genetic distance 2.435, standard deviation 0.681
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	50	129	235.9	0.453	11
5	19	121	255.1	0.416	7

Total extinctions: 0
 Generation time: 17.862 sec (17.975 average)

***** Running generation 502 *****

Population's average fitness: 29.96424 stdev: 126.33694
 Best fitness: 259.96249 - size: (22, 45) - species 5 - id 115807
 Average adjusted fitness: 0.408
 Mean genetic distance 2.415, standard deviation 0.714
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	51	126	237.9	0.400	12
5	20	124	260.0	0.416	8

Total extinctions: 0
 Generation time: 17.606 sec (17.893 average)

***** Running generation 503 *****

Population's average fitness: 22.45385 stdev: 124.06235
 Best fitness: 252.72121 - size: (24, 44) - species 4 - id 115871
 Average adjusted fitness: 0.420
 Mean genetic distance 2.483, standard deviation 0.663
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	52	124	252.7	0.413	13
5	21	126	248.1	0.427	9

Total extinctions: 0
 Generation time: 16.670 sec (17.824 average)

***** Running generation 504 *****

Population's average fitness: 29.48406 stdev: 125.35738
 Best fitness: 257.08727 - size: (24, 45) - species 4 - id 116190
 Average adjusted fitness: 0.432
 Mean genetic distance 2.492, standard deviation 0.695

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	53	126	257.1	0.440	14
5	22	124	248.7	0.423	10

Total extinctions: 0

Generation time: 16.986 sec (17.664 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-504

***** Running generation 505 *****

Population's average fitness: 28.33804 stdev: 125.58421

Best fitness: 260.71824 - size: (23, 42) - species 5 - id 116355

Average adjusted fitness: 0.452

Mean genetic distance 2.521, standard deviation 0.673

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	54	127	253.8	0.459	15
5	23	123	260.7	0.446	11

Total extinctions: 0

Generation time: 16.904 sec (17.692 average)

***** Running generation 506 *****

Population's average fitness: 33.54592 stdev: 123.46009

Best fitness: 273.56681 - size: (22, 45) - species 5 - id 116118

Average adjusted fitness: 0.421

Mean genetic distance 2.504, standard deviation 0.725

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	55	128	255.9	0.437	16
5	24	122	273.6	0.405	0

Total extinctions: 0

Generation time: 17.791 sec (17.598 average)

***** Running generation 507 *****

Population's average fitness: 29.38038 stdev: 122.88816

Best fitness: 248.07198 - size: (26, 52) - species 5 - id 116910

Average adjusted fitness: 0.451

Mean genetic distance 2.565, standard deviation 0.704

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	56	124	234.5	0.435	17
5	25	126	248.1	0.468	1

Total extinctions: 0

Generation time: 18.540 sec (17.590 average)

***** Running generation 508 *****

Population's average fitness: 35.32780 stdev: 124.49914

Best fitness: 245.47908 - size: (26, 48) - species 5 - id 117120

Average adjusted fitness: 0.462

Mean genetic distance 2.540, standard deviation 0.698

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
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====	===	====	=====	=====	=====
4	57	127	243.2	0.481	18
5	26	123	245.5	0.444	2

Total extinctions: 0

Generation time: 17.732 sec (17.639 average)

***** Running generation 509 *****

Population's average fitness: 31.53226 stdev: 123.56301

Best fitness: 254.15094 - size: (23, 40) - species 5 - id 116879

Average adjusted fitness: 0.422

Mean genetic distance 2.447, standard deviation 0.753

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	=====
4	58	125	247.0	0.415	19
5	27	125	254.2	0.429	3

Total extinctions: 0

Generation time: 16.962 sec (17.529 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-509

***** Running generation 510 *****

Population's average fitness: 35.76742 stdev: 125.39695

Best fitness: 263.32984 - size: (22, 43) - species 5 - id 117377

Average adjusted fitness: 0.448

Mean genetic distance 2.428, standard deviation 0.763

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	=====
4	59	128	245.4	0.468	20
5	28	122	263.3	0.427	4

Total extinctions: 0

Generation time: 16.981 sec (17.404 average)

***** Running generation 511 *****

Population's average fitness: 22.28190 stdev: 127.92182

Best fitness: 245.49919 - size: (24, 43) - species 5 - id 117677

Average adjusted fitness: 0.445

Mean genetic distance 2.406, standard deviation 0.778

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	=====
4	60	136	241.5	0.513	21
5	29	114	245.5	0.376	5

Total extinctions: 0

Generation time: 15.152 sec (17.133 average)

***** Running generation 512 *****

Population's average fitness: 30.51510 stdev: 127.86221

Best fitness: 267.39366 - size: (25, 48) - species 5 - id 117882

Average adjusted fitness: 0.420

Mean genetic distance 2.446, standard deviation 0.802

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	=====
4	61	137	229.5	0.459	22

5 30 113 267.4 0.380 6
 Total extinctions: 0
 Generation time: 17.050 sec (17.077 average)

***** Running generation 513 *****

Population's average fitness: 21.87857 stdev: 127.93452
 Best fitness: 224.71727 - size: (26, 54) - species 4 - id 118257
 Average adjusted fitness: 0.494
 Mean genetic distance 2.464, standard deviation 0.727
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	62	138	224.7	0.545	23
5	31	112	218.0	0.443	7

Total extinctions: 0
 Generation time: 16.165 sec (17.026 average)

***** Running generation 514 *****

Population's average fitness: 25.14266 stdev: 125.71013
 Best fitness: 241.45757 - size: (20, 34) - species 5 - id 118114
 Average adjusted fitness: 0.468
 Mean genetic distance 2.468, standard deviation 0.736
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	63	139	237.1	0.525	24
5	32	111	241.5	0.411	8

Total extinctions: 0
 Generation time: 16.445 sec (16.972 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-514

***** Running generation 515 *****

Population's average fitness: 34.29341 stdev: 127.31618
 Best fitness: 252.87312 - size: (21, 42) - species 5 - id 118776
 Average adjusted fitness: 0.431
 Mean genetic distance 2.403, standard deviation 0.662
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	64	134	246.3	0.444	25
5	33	116	252.9	0.419	9

Total extinctions: 0
 Generation time: 16.605 sec (16.942 average)

***** Running generation 516 *****

Population's average fitness: 36.43232 stdev: 123.83290
 Best fitness: 240.58396 - size: (24, 45) - species 5 - id 118085
 Average adjusted fitness: 0.470
 Mean genetic distance 2.316, standard deviation 0.601
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	65	132	232.5	0.491	26
5	34	118	240.6	0.450	10

Total extinctions: 0

Generation time: 20.926 sec (17.256 average)

***** Running generation 517 *****

Population's average fitness: 39.26339 stdev: 127.80248
 Best fitness: 254.51417 - size: (24, 45) - species 5 - id 119197
 Average adjusted fitness: 0.447
 Mean genetic distance 2.314, standard deviation 0.643
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	66	133	239.4	0.477	27
5	35	117	254.5	0.417	11

Total extinctions: 0
 Generation time: 17.353 sec (17.137 average)

***** Running generation 518 *****

Population's average fitness: 41.11420 stdev: 121.64703
 Best fitness: 256.99775 - size: (21, 39) - species 5 - id 119051
 Average adjusted fitness: 0.455
 Mean genetic distance 2.305, standard deviation 0.683
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	67	129	256.1	0.453	28
5	36	121	257.0	0.458	12

Total extinctions: 0
 Generation time: 18.441 sec (17.208 average)

***** Running generation 519 *****

Population's average fitness: 21.45979 stdev: 132.84185
 Best fitness: 254.95137 - size: (21, 45) - species 5 - id 119452
 Average adjusted fitness: 0.402
 Mean genetic distance 2.372, standard deviation 0.615
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	68	128	247.0	0.411	29
5	37	122	255.0	0.392	13

Total extinctions: 0
 Generation time: 15.530 sec (17.065 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-519

***** Running generation 520 *****

Population's average fitness: 43.33944 stdev: 129.50146
 Best fitness: 252.58304 - size: (26, 47) - species 4 - id 119569
 Average adjusted fitness: 0.470
 Mean genetic distance 2.344, standard deviation 0.570
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	69	132	252.6	0.508	30
5	38	118	247.9	0.432	14

Total extinctions: 0
 Generation time: 17.237 sec (17.090 average)

***** Running generation 521 *****

Population's average fitness: 23.72427 stdev: 122.80971
 Best fitness: 258.22239 - size: (27, 52) - species 4 - id 120178
 Average adjusted fitness: 0.484
 Mean genetic distance 2.374, standard deviation 0.581
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	70	131	258.2	0.504	31
5	39	119	239.6	0.465	15

Total extinctions: 0
 Generation time: 17.315 sec (17.307 average)

***** Running generation 522 *****

Population's average fitness: 25.35575 stdev: 127.13545
 Best fitness: 259.87249 - size: (27, 53) - species 4 - id 120157
 Average adjusted fitness: 0.459
 Mean genetic distance 2.465, standard deviation 0.647
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	71	132	259.9	0.483	32
5	40	118	254.9	0.435	16

Total extinctions: 0
 Generation time: 16.880 sec (17.290 average)

***** Running generation 523 *****

Population's average fitness: 4.31172 stdev: 120.38253
 Best fitness: 263.63288 - size: (25, 47) - species 5 - id 120466
 Average adjusted fitness: 0.431
 Mean genetic distance 2.450, standard deviation 0.719
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	72	129	237.8	0.436	33
5	41	121	263.6	0.426	17

Total extinctions: 0
 Generation time: 16.376 sec (17.311 average)

***** Running generation 524 *****

Population's average fitness: 26.07557 stdev: 124.05162
 Best fitness: 257.29272 - size: (25, 50) - species 5 - id 120863
 Average adjusted fitness: 0.459
 Mean genetic distance 2.462, standard deviation 0.732
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	73	126	254.8	0.455	34
5	42	124	257.3	0.463	18

Total extinctions: 0
 Generation time: 17.648 sec (17.431 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-524

***** Running generation 525 *****

Population's average fitness: 12.86935 stdev: 125.31423
 Best fitness: 239.77030 - size: (25, 47) - species 5 - id 121046
 Average adjusted fitness: 0.459
 Mean genetic distance 2.440, standard deviation 0.770
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	74	130	239.2	0.489	35
5	43	120	239.8	0.428	19

Total extinctions: 0
 Generation time: 16.430 sec (17.414 average)

***** Running generation 526 *****

Population's average fitness: 35.65784 stdev: 125.92474
 Best fitness: 247.02739 - size: (24, 42) - species 5 - id 121054
 Average adjusted fitness: 0.438
 Mean genetic distance 2.466, standard deviation 0.725
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	75	136	241.2	0.495	36
5	44	114	247.0	0.382	20

Total extinctions: 0
 Generation time: 17.677 sec (17.089 average)

***** Running generation 527 *****

Population's average fitness: 33.67716 stdev: 127.43105
 Best fitness: 275.69659 - size: (25, 50) - species 5 - id 120863
 Average adjusted fitness: 0.428
 Mean genetic distance 2.538, standard deviation 0.695
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	76	139	231.1	0.486	37
5	45	111	275.7	0.371	0

Total extinctions: 0
 Generation time: 17.606 sec (17.114 average)

***** Running generation 528 *****

Population's average fitness: 22.73000 stdev: 123.66565
 Best fitness: 286.06253 - size: (24, 44) - species 5 - id 121806
 Average adjusted fitness: 0.385
 Mean genetic distance 2.513, standard deviation 0.653
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	77	134	252.4	0.397	38
5	46	116	286.1	0.374	0

Total extinctions: 0
 Generation time: 17.441 sec (17.014 average)

***** Running generation 529 *****

Population's average fitness: 36.31776 stdev: 123.61714
 Best fitness: 268.78116 - size: (24, 44) - species 5 - id 121806
 Average adjusted fitness: 0.516
 Mean genetic distance 2.456, standard deviation 0.691

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	78	135	251.5	0.563	39
5	47	115	268.8	0.468	1

Total extinctions: 0

Generation time: 18.316 sec (17.293 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-529

***** Running generation 530 *****

Population's average fitness: 35.62132 stdev: 127.98117

Best fitness: 276.77336 - size: (25, 49) - species 5 - id 121485

Average adjusted fitness: 0.401

Mean genetic distance 2.418, standard deviation 0.705

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	79	138	240.3	0.451	40
5	48	112	276.8	0.351	2

Total extinctions: 0

Generation time: 17.875 sec (17.356 average)

***** Running generation 531 *****

Population's average fitness: 34.12665 stdev: 127.13333

Best fitness: 253.33611 - size: (25, 50) - species 5 - id 121963

Average adjusted fitness: 0.420

Mean genetic distance 2.415, standard deviation 0.694

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	80	143	230.4	0.496	41
5	49	107	253.3	0.345	3

Total extinctions: 0

Generation time: 17.481 sec (17.373 average)

***** Running generation 532 *****

Population's average fitness: 25.26498 stdev: 125.25203

Best fitness: 240.07703 - size: (24, 47) - species 5 - id 122681

Average adjusted fitness: 0.429

Mean genetic distance 2.413, standard deviation 0.727

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	81	142	232.1	0.484	42
5	50	108	240.1	0.374	4

Total extinctions: 0

Generation time: 17.462 sec (17.431 average)

***** Running generation 533 *****

Population's average fitness: 39.03531 stdev: 124.14513

Best fitness: 268.27093 - size: (25, 48) - species 5 - id 122898

Average adjusted fitness: 0.421

Mean genetic distance 2.444, standard deviation 0.703

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
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====	===	====	=====	=====	====
4	82	134	247.6	0.425	43
5	51	116	268.3	0.417	5

Total extinctions: 0

Generation time: 17.932 sec (17.587 average)

***** Running generation 534 *****

Population's average fitness: 28.71605 stdev: 127.32419

Best fitness: 257.96116 - size: (30, 60) - species 4 - id 122160

Average adjusted fitness: 0.406

Mean genetic distance 2.497, standard deviation 0.652

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
4	83	133	258.0	0.429	44
5	52	117	248.4	0.383	6

Total extinctions: 0

Generation time: 17.546 sec (17.577 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-534

***** Running generation 535 *****

Population's average fitness: 33.87858 stdev: 125.10493

Best fitness: 250.86172 - size: (30, 61) - species 4 - id 122856

Average adjusted fitness: 0.471

Mean genetic distance 2.437, standard deviation 0.654

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
4	84	134	250.9	0.507	45
5	53	116	238.6	0.436	7

Total extinctions: 0

Generation time: 17.952 sec (17.729 average)

***** Running generation 536 *****

Population's average fitness: 37.41761 stdev: 127.95920

Best fitness: 249.21825 - size: (25, 39) - species 5 - id 123528

Average adjusted fitness: 0.497

Mean genetic distance 2.416, standard deviation 0.624

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
4	85	132	238.6	0.520	46
5	54	118	249.2	0.474	8

Total extinctions: 0

Generation time: 18.054 sec (17.766 average)

***** Running generation 537 *****

Population's average fitness: 21.23205 stdev: 125.49212

Best fitness: 247.21148 - size: (24, 46) - species 5 - id 123787

Average adjusted fitness: 0.428

Mean genetic distance 2.467, standard deviation 0.653

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
4	86	134	239.3	0.463	47

5 55 116 247.2 0.392 9
 Total extinctions: 0
 Generation time: 17.280 sec (17.734 average)

***** Running generation 538 *****

Population's average fitness: 30.08547 stdev: 130.49750
 Best fitness: 254.89376 - size: (29, 62) - species 4 - id 123910
 Average adjusted fitness: 0.415
 Mean genetic distance 2.523, standard deviation 0.729
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	87	137	254.9	0.462	48
5	56	113	251.0	0.368	10

Total extinctions: 0
 Generation time: 16.815 sec (17.671 average)

***** Running generation 539 *****

Population's average fitness: 15.17742 stdev: 128.13926
 Best fitness: 246.65348 - size: (29, 61) - species 4 - id 124273
 Average adjusted fitness: 0.423
 Mean genetic distance 2.458, standard deviation 0.716
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	88	136	246.7	0.460	49
5	57	114	236.7	0.387	11

Total extinctions: 0
 Generation time: 15.695 sec (17.409 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-539

***** Running generation 540 *****

Population's average fitness: 37.16392 stdev: 129.72463
 Best fitness: 247.25900 - size: (28, 60) - species 4 - id 124522
 Average adjusted fitness: 0.468
 Mean genetic distance 2.438, standard deviation 0.674
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	89	134	247.3	0.495	50
5	58	116	233.4	0.442	12

Total extinctions: 0
 Generation time: 17.688 sec (17.390 average)

***** Running generation 541 *****

Population's average fitness: 31.76999 stdev: 130.35123
 Best fitness: 256.24532 - size: (26, 51) - species 5 - id 124209
 Average adjusted fitness: 0.427
 Mean genetic distance 2.386, standard deviation 0.706
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	90	137	244.9	0.478	51
5	59	113	256.2	0.377	13

Total extinctions: 0

Generation time: 16.918 sec (17.334 average)

***** Running generation 542 *****

Population's average fitness: 26.74240 stdev: 126.09485
 Best fitness: 251.25561 - size: (29, 61) - species 4 - id 124854
 Average adjusted fitness: 0.443
 Mean genetic distance 2.433, standard deviation 0.692
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	91	134	251.3	0.465	52
5	60	116	227.7	0.420	14

Total extinctions: 0
 Generation time: 17.217 sec (17.310 average)

***** Running generation 543 *****

Population's average fitness: 32.49609 stdev: 124.43942
 Best fitness: 248.94139 - size: (29, 61) - species 4 - id 124854
 Average adjusted fitness: 0.443
 Mean genetic distance 2.418, standard deviation 0.716
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	92	132	248.9	0.460	53
5	61	118	237.1	0.427	15

Total extinctions: 0
 Generation time: 17.619 sec (17.278 average)

***** Running generation 544 *****

Population's average fitness: 27.34852 stdev: 125.08130
 Best fitness: 269.30276 - size: (30, 62) - species 4 - id 124552
 Average adjusted fitness: 0.399
 Mean genetic distance 2.343, standard deviation 0.768
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	93	135	269.3	0.443	54
5	62	115	240.6	0.355	16

Total extinctions: 0
 Generation time: 16.806 sec (17.204 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-544

***** Running generation 545 *****

Population's average fitness: 40.36375 stdev: 132.93875
 Best fitness: 248.40741 - size: (29, 61) - species 4 - id 125621
 Average adjusted fitness: 0.451
 Mean genetic distance 2.347, standard deviation 0.757
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	94	139	248.4	0.516	55
5	63	111	247.1	0.386	17

Total extinctions: 0
 Generation time: 16.897 sec (17.099 average)

***** Running generation 546 *****

Population's average fitness: 13.50367 stdev: 126.88543
 Best fitness: 262.67833 - size: (29, 62) - species 4 - id 125944
 Average adjusted fitness: 0.408
 Mean genetic distance 2.386, standard deviation 0.740
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	95	141	262.7	0.464	56
5	64	109	255.8	0.352	18

Total extinctions: 0
 Generation time: 16.006 sec (16.894 average)

***** Running generation 547 *****

Population's average fitness: 36.08130 stdev: 126.32101
 Best fitness: 260.03447 - size: (29, 61) - species 4 - id 125621
 Average adjusted fitness: 0.463
 Mean genetic distance 2.451, standard deviation 0.700
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	96	140	260.0	0.512	57
5	65	110	240.1	0.415	19

Total extinctions: 0
 Generation time: 17.819 sec (16.948 average)

***** Running generation 548 *****

Population's average fitness: 26.43411 stdev: 129.80496
 Best fitness: 242.09571 - size: (24, 41) - species 5 - id 126286
 Average adjusted fitness: 0.469
 Mean genetic distance 2.522, standard deviation 0.645
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	97	139	239.9	0.520	58
5	66	111	242.1	0.418	20

Total extinctions: 0
 Generation time: 16.725 sec (16.939 average)

***** Running generation 549 *****

Population's average fitness: 24.76221 stdev: 125.63112
 Best fitness: 254.10144 - size: (25, 48) - species 5 - id 126568
 Average adjusted fitness: 0.408
 Mean genetic distance 2.550, standard deviation 0.636
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	98	138	242.5	0.451	59
5	67	112	254.1	0.365	21

Total extinctions: 0
 Generation time: 17.183 sec (17.088 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-549

***** Running generation 550 *****

Population's average fitness: 18.27034 stdev: 123.51822
 Best fitness: 251.86569 - size: (25, 48) - species 5 - id 126568
 Average adjusted fitness: 0.404
 Mean genetic distance 2.515, standard deviation 0.660
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	99	134	249.9	0.419	60
5	68	116	251.9	0.388	22

Total extinctions: 0
 Generation time: 16.750 sec (16.994 average)

***** Running generation 551 *****

Population's average fitness: -0.06511 stdev: 120.92725
 Best fitness: 257.94747 - size: (30, 58) - species 4 - id 126663
 Average adjusted fitness: 0.412
 Mean genetic distance 2.547, standard deviation 0.683
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	100	135	257.9	0.449	61
5	69	115	211.2	0.376	23

Total extinctions: 0
 Generation time: 15.206 sec (16.823 average)

***** Running generation 552 *****

Population's average fitness: -2.64677 stdev: 119.71435
 Best fitness: 236.36181 - size: (29, 56) - species 4 - id 126951
 Average adjusted fitness: 0.387
 Mean genetic distance 2.599, standard deviation 0.628
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	101	133	236.4	0.408	62
5	70	117	217.3	0.366	24

Total extinctions: 0
 Generation time: 14.656 sec (16.567 average)

***** Running generation 553 *****

Population's average fitness: 18.55982 stdev: 124.15259
 Best fitness: 256.80907 - size: (29, 60) - species 4 - id 127506
 Average adjusted fitness: 0.379
 Mean genetic distance 2.571, standard deviation 0.583
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	102	139	256.8	0.442	63
5	71	111	222.0	0.315	25

Total extinctions: 0
 Generation time: 17.029 sec (16.508 average)

***** Running generation 554 *****

Population's average fitness: 17.46808 stdev: 124.78933
 Best fitness: 237.66433 - size: (27, 49) - species 5 - id 125742
 Average adjusted fitness: 0.421
 Mean genetic distance 2.548, standard deviation 0.602

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	103	140	236.5	0.473	64
5	72	110	237.7	0.370	26

Total extinctions: 0

Generation time: 16.575 sec (16.485 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-554

***** Running generation 555 *****

Population's average fitness: 10.75342 stdev: 124.15791

Best fitness: 261.12991 - size: (24, 45) - species 5 - id 128001

Average adjusted fitness: 0.366

Mean genetic distance 2.559, standard deviation 0.568

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	104	142	253.4	0.423	65
5	73	108	261.1	0.310	27

Total extinctions: 0

Generation time: 16.634 sec (16.458 average)

***** Running generation 556 *****

Population's average fitness: 2.47927 stdev: 122.48791

Best fitness: 264.26570 - size: (29, 53) - species 4 - id 128156

Average adjusted fitness: 0.453

Mean genetic distance 2.486, standard deviation 0.534

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	105	137	264.3	0.481	66
5	74	113	229.0	0.426	28

Total extinctions: 0

Generation time: 16.126 sec (16.470 average)

***** Running generation 557 *****

Population's average fitness: 19.15479 stdev: 124.05657

Best fitness: 284.45426 - size: (23, 42) - species 5 - id 127937

Average adjusted fitness: 0.424

Mean genetic distance 2.493, standard deviation 0.513

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	106	138	232.2	0.469	67
5	75	112	284.5	0.379	29

Total extinctions: 0

Generation time: 17.724 sec (16.461 average)

***** Running generation 558 *****

Population's average fitness: 5.24857 stdev: 122.45428

Best fitness: 243.58977 - size: (29, 50) - species 4 - id 128527

Average adjusted fitness: 0.424

Mean genetic distance 2.526, standard deviation 0.553

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

```

=====
====  ===  =====  =====  =====
      4  107   137    243.6    0.466    68
      5   76   113    220.1    0.382    30
Total extinctions: 0
Generation time: 16.174 sec (16.405 average)

```

***** Running generation 559 *****

```

Population's average fitness: -1.00042 stdev: 117.24194
Best fitness: 240.07351 - size: (23, 39) - species 5 - id 128206
Average adjusted fitness: 0.361
Mean genetic distance 2.506, standard deviation 0.615
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      4  108   134    227.5    0.381    69
      5   77   116    240.1    0.341    31
Total extinctions: 0
Generation time: 15.781 sec (16.265 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-559

```

***** Running generation 560 *****

```

Population's average fitness: 7.90974 stdev: 116.67818
Best fitness: 237.35036 - size: (22, 39) - species 5 - id 128736
Average adjusted fitness: 0.400
Mean genetic distance 2.479, standard deviation 0.594
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      4  109   135    230.1    0.436    70
      5   78   115    237.4    0.365    32
Total extinctions: 0
Generation time: 16.129 sec (16.203 average)

```

***** Running generation 561 *****

```

Population's average fitness: -5.77391 stdev: 118.05108
Best fitness: 239.96333 - size: (23, 39) - species 5 - id 129311
Average adjusted fitness: 0.342
Mean genetic distance 2.512, standard deviation 0.582
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      4  110   130    239.6    0.341    71
      5   79   120    240.0    0.344    33
Total extinctions: 0
Generation time: 14.956 sec (16.178 average)

```

***** Running generation 562 *****

```

Population's average fitness: 13.88835 stdev: 121.35618
Best fitness: 260.41565 - size: (22, 43) - species 5 - id 129309
Average adjusted fitness: 0.380
Mean genetic distance 2.518, standard deviation 0.561
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      4  111   129    245.8    0.387    72

```


5 80 121 260.4 0.374 34
 Total extinctions: 0
 Generation time: 16.442 sec (16.357 average)

***** Running generation 563 *****

Population's average fitness: 22.19472 stdev: 127.64553
 Best fitness: 237.51074 - size: (22, 41) - species 5 - id 129841
 Average adjusted fitness: 0.484
 Mean genetic distance 2.521, standard deviation 0.600
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	112	132	230.6	0.518	73
5	81	118	237.5	0.449	35

Total extinctions: 0
 Generation time: 16.401 sec (16.294 average)

***** Running generation 564 *****

Population's average fitness: 24.31787 stdev: 123.28231
 Best fitness: 252.30522 - size: (26, 47) - species 5 - id 130067
 Average adjusted fitness: 0.449
 Mean genetic distance 2.469, standard deviation 0.669
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	113	130	243.9	0.459	74
5	82	120	252.3	0.439	36

Total extinctions: 0
 Generation time: 18.111 sec (16.448 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-564

***** Running generation 565 *****

Population's average fitness: 22.05732 stdev: 119.80486
 Best fitness: 232.99032 - size: (23, 39) - species 5 - id 128206
 Average adjusted fitness: 0.435
 Mean genetic distance 2.468, standard deviation 0.688
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	114	131	231.3	0.461	75
5	83	119	233.0	0.409	37

Total extinctions: 0
 Generation time: 17.373 sec (16.522 average)

***** Running generation 566 *****

Population's average fitness: 29.58558 stdev: 122.84075
 Best fitness: 243.80354 - size: (28, 46) - species 4 - id 130416
 Average adjusted fitness: 0.430
 Mean genetic distance 2.479, standard deviation 0.672
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	115	135	243.8	0.478	76
5	84	115	239.2	0.381	38

Total extinctions: 0

Generation time: 17.566 sec (16.666 average)

***** Running generation 567 *****

Population's average fitness: 21.84113 stdev: 131.27383
 Best fitness: 249.80184 - size: (28, 58) - species 4 - id 130683
 Average adjusted fitness: 0.410
 Mean genetic distance 2.436, standard deviation 0.709
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	116	137	249.8	0.455	77
5	85	113	228.2	0.365	39

Total extinctions: 0
 Generation time: 16.429 sec (16.536 average)

***** Running generation 568 *****

Population's average fitness: 20.23623 stdev: 124.78665
 Best fitness: 258.90171 - size: (23, 38) - species 5 - id 130876
 Average adjusted fitness: 0.414
 Mean genetic distance 2.421, standard deviation 0.716
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	117	134	241.8	0.436	78
5	86	116	258.9	0.392	40

Total extinctions: 0
 Generation time: 16.766 sec (16.595 average)

***** Running generation 569 *****

Population's average fitness: 26.67311 stdev: 123.08929
 Best fitness: 267.84630 - size: (26, 50) - species 4 - id 131116
 Average adjusted fitness: 0.423
 Mean genetic distance 2.519, standard deviation 0.649
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	118	127	267.8	0.410	79
5	87	123	243.0	0.437	41

Total extinctions: 0
 Generation time: 17.153 sec (16.733 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-569

***** Running generation 570 *****

Population's average fitness: 20.79021 stdev: 126.34970
 Best fitness: 241.84180 - size: (22, 36) - species 5 - id 131146
 Average adjusted fitness: 0.403
 Mean genetic distance 2.553, standard deviation 0.602
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	119	131	235.5	0.435	80
5	88	119	241.8	0.371	42

Total extinctions: 0
 Generation time: 16.008 sec (16.720 average)

***** Running generation 571 *****

Population's average fitness: 42.54022 stdev: 125.55628
 Best fitness: 250.04221 - size: (27, 54) - species 4 - id 131497
 Average adjusted fitness: 0.457
 Mean genetic distance 2.531, standard deviation 0.623
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	120	132	250.0	0.488	81
5	89	118	233.1	0.426	43

Total extinctions: 0
 Generation time: 17.808 sec (17.006 average)

***** Running generation 572 *****

Population's average fitness: 23.31092 stdev: 127.61977
 Best fitness: 232.23373 - size: (23, 39) - species 5 - id 131229
 Average adjusted fitness: 0.423
 Mean genetic distance 2.559, standard deviation 0.627
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	121	135	230.4	0.465	82
5	90	115	232.2	0.380	44

Total extinctions: 0
 Generation time: 16.106 sec (16.972 average)

***** Running generation 573 *****

Population's average fitness: 23.79002 stdev: 128.31154
 Best fitness: 249.26296 - size: (26, 52) - species 4 - id 131910
 Average adjusted fitness: 0.488
 Mean genetic distance 2.501, standard deviation 0.692
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	122	130	249.3	0.488	83
5	91	120	230.4	0.488	45

Total extinctions: 0
 Generation time: 16.089 sec (16.941 average)

***** Running generation 574 *****

Population's average fitness: 33.62213 stdev: 126.48407
 Best fitness: 263.56041 - size: (23, 38) - species 5 - id 131148
 Average adjusted fitness: 0.428
 Mean genetic distance 2.523, standard deviation 0.646
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	123	127	229.6	0.422	84
5	92	123	263.6	0.433	46

Total extinctions: 0
 Generation time: 17.190 sec (16.849 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-574

***** Running generation 575 *****

Population's average fitness: 38.97989 stdev: 126.95956
 Best fitness: 270.81767 - size: (22, 38) - species 5 - id 132165
 Average adjusted fitness: 0.449
 Mean genetic distance 2.521, standard deviation 0.699
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	124	130	254.5	0.475	85
5	93	120	270.8	0.424	47

Total extinctions: 0
 Generation time: 18.111 sec (16.923 average)

***** Running generation 576 *****

Population's average fitness: 31.22850 stdev: 129.21089
 Best fitness: 251.11409 - size: (25, 52) - species 4 - id 132665
 Average adjusted fitness: 0.419
 Mean genetic distance 2.541, standard deviation 0.708
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	125	137	251.1	0.480	86
5	94	113	234.3	0.358	48

Total extinctions: 0
 Generation time: 16.414 sec (16.807 average)

***** Running generation 577 *****

Population's average fitness: 21.24014 stdev: 123.54727
 Best fitness: 252.22109 - size: (29, 45) - species 4 - id 133028
 Average adjusted fitness: 0.445
 Mean genetic distance 2.562, standard deviation 0.680
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	126	136	252.2	0.485	87
5	95	114	243.8	0.405	49

Total extinctions: 0
 Generation time: 16.634 sec (16.828 average)

***** Running generation 578 *****

Population's average fitness: 33.70468 stdev: 127.14129
 Best fitness: 258.12659 - size: (23, 41) - species 5 - id 133181
 Average adjusted fitness: 0.433
 Mean genetic distance 2.587, standard deviation 0.679
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	127	137	251.8	0.477	88
5	96	113	258.1	0.389	50

Total extinctions: 0
 Generation time: 17.164 sec (16.868 average)

***** Running generation 579 *****

Population's average fitness: 32.14268 stdev: 126.46569
 Best fitness: 268.24105 - size: (26, 52) - species 4 - id 133336
 Average adjusted fitness: 0.410
 Mean genetic distance 2.593, standard deviation 0.653

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	128	129	268.2	0.397	89
5	97	121	256.7	0.423	51

Total extinctions: 0

Generation time: 16.989 sec (16.851 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-579

***** Running generation 580 *****

Population's average fitness: 42.71464 stdev: 124.66587

Best fitness: 240.94204 - size: (26, 51) - species 4 - id 133732

Average adjusted fitness: 0.474

Mean genetic distance 2.572, standard deviation 0.668

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	129	132	240.9	0.508	90
5	98	118	220.9	0.440	52

Total extinctions: 0

Generation time: 17.974 sec (17.048 average)

***** Running generation 581 *****

Population's average fitness: 29.66285 stdev: 126.65922

Best fitness: 242.39408 - size: (31, 47) - species 4 - id 133987

Average adjusted fitness: 0.428

Mean genetic distance 2.547, standard deviation 0.705

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	130	129	242.4	0.433	91
5	99	121	238.7	0.424	53

Total extinctions: 0

Generation time: 17.419 sec (17.009 average)

***** Running generation 582 *****

Population's average fitness: 27.68485 stdev: 124.29900

Best fitness: 246.19906 - size: (24, 40) - species 5 - id 134046

Average adjusted fitness: 0.421

Mean genetic distance 2.583, standard deviation 0.687

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	131	130	245.3	0.438	92
5	100	120	246.2	0.405	54

Total extinctions: 0

Generation time: 16.911 sec (17.089 average)

***** Running generation 583 *****

Population's average fitness: 29.65182 stdev: 129.56925

Best fitness: 251.37400 - size: (23, 41) - species 5 - id 133805

Average adjusted fitness: 0.446

Mean genetic distance 2.628, standard deviation 0.677

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

====	===	====	=====	=====	====
4	132	128	242.2	0.452	93
5	101	122	251.4	0.439	55

Total extinctions: 0

Generation time: 16.520 sec (17.132 average)

***** Running generation 584 *****

Population's average fitness: 31.61853 stdev: 122.33300

Best fitness: 244.45587 - size: (23, 43) - species 5 - id 133454

Average adjusted fitness: 0.502

Mean genetic distance 2.702, standard deviation 0.637

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
4	133	127	235.6	0.503	94
5	102	123	244.5	0.502	56

Total extinctions: 0

Generation time: 18.086 sec (17.222 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-584

***** Running generation 585 *****

Population's average fitness: 31.22320 stdev: 121.52119

Best fitness: 261.50078 - size: (23, 41) - species 5 - id 134594

Average adjusted fitness: 0.449

Mean genetic distance 2.693, standard deviation 0.689

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
4	134	131	250.7	0.485	95
5	103	119	261.5	0.412	57

Total extinctions: 0

Generation time: 17.539 sec (17.165 average)

***** Running generation 586 *****

Population's average fitness: 17.60129 stdev: 123.26609

Best fitness: 250.04059 - size: (28, 45) - species 4 - id 133911

Average adjusted fitness: 0.393

Mean genetic distance 2.691, standard deviation 0.727

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
4	135	129	250.0	0.399	96
5	104	121	237.9	0.386	58

Total extinctions: 0

Generation time: 16.128 sec (17.136 average)

***** Running generation 587 *****

Population's average fitness: 41.07279 stdev: 123.80776

Best fitness: 256.81179 - size: (24, 37) - species 4 - id 135388

Average adjusted fitness: 0.455

Mean genetic distance 2.751, standard deviation 0.673

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
4	136	127	256.8	0.459	97

5 105 123 245.2 0.452 59
 Total extinctions: 0
 Generation time: 16.816 sec (17.155 average)

***** Running generation 588 *****

Population's average fitness: 37.98465 stdev: 127.92795
 Best fitness: 255.93669 - size: (26, 41) - species 4 - id 135592
 Average adjusted fitness: 0.513
 Mean genetic distance 2.825, standard deviation 0.638
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	137	133	255.9	0.569	98
5	106	117	245.3	0.457	60

Total extinctions: 0
 Generation time: 16.743 sec (17.112 average)

***** Running generation 589 *****

Population's average fitness: 16.33233 stdev: 124.25623
 Best fitness: 250.32146 - size: (27, 43) - species 4 - id 135571
 Average adjusted fitness: 0.412
 Mean genetic distance 2.886, standard deviation 0.592
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	138	130	250.3	0.419	99
5	107	120	250.0	0.405	61

Total extinctions: 0
 Generation time: 15.814 sec (16.995 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-589

***** Running generation 590 *****

Population's average fitness: 22.63492 stdev: 124.02375
 Best fitness: 248.18677 - size: (24, 40) - species 5 - id 135891
 Average adjusted fitness: 0.406
 Mean genetic distance 2.768, standard deviation 0.642
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	139	126	244.1	0.393	100
5	108	124	248.2	0.419	62

Total extinctions: 0
 Generation time: 15.841 sec (16.782 average)

***** Running generation 591 *****

Population's average fitness: 11.38218 stdev: 122.63985
 Best fitness: 253.81310 - size: (25, 38) - species 5 - id 135878
 Average adjusted fitness: 0.407
 Mean genetic distance 2.619, standard deviation 0.706
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	140	131	236.0	0.442	101
5	109	119	253.8	0.373	63

Total extinctions: 0

Generation time: 15.842 sec (16.624 average)

***** Running generation 592 *****

Population's average fitness: 30.77114 stdev: 124.31670
 Best fitness: 259.30912 - size: (25, 38) - species 5 - id 135878
 Average adjusted fitness: 0.414
 Mean genetic distance 2.516, standard deviation 0.756
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	141	130	230.2	0.425	102
5	110	120	259.3	0.404	64

Total extinctions: 0
 Generation time: 16.681 sec (16.601 average)

***** Running generation 593 *****

Population's average fitness: 23.24713 stdev: 129.04850
 Best fitness: 248.08529 - size: (21, 38) - species 5 - id 136758
 Average adjusted fitness: 0.403
 Mean genetic distance 2.454, standard deviation 0.811
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	142	136	243.3	0.456	103
5	111	114	248.1	0.349	65

Total extinctions: 0
 Generation time: 15.295 sec (16.479 average)

***** Running generation 594 *****

Population's average fitness: 50.47407 stdev: 122.55316
 Best fitness: 284.95617 - size: (28, 49) - species 4 - id 136825
 Average adjusted fitness: 0.447
 Mean genetic distance 2.578, standard deviation 0.759
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	143	138	285.0	0.502	0
5	112	112	239.5	0.392	66

Total extinctions: 0
 Generation time: 17.345 sec (16.405 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-594

***** Running generation 595 *****

Population's average fitness: 36.68569 stdev: 125.18243
 Best fitness: 248.91875 - size: (24, 34) - species 4 - id 137113
 Average adjusted fitness: 0.471
 Mean genetic distance 2.611, standard deviation 0.721
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	144	135	248.9	0.499	1
5	113	115	241.3	0.444	67

Total extinctions: 0
 Generation time: 16.250 sec (16.276 average)

***** Running generation 596 *****

Population's average fitness: 30.65385 stdev: 125.59105
 Best fitness: 272.64377 - size: (24, 33) - species 4 - id 136655
 Average adjusted fitness: 0.443
 Mean genetic distance 2.578, standard deviation 0.719
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	145	136	272.6	0.489	2
5	114	114	248.5	0.397	68

Total extinctions: 0
 Generation time: 16.616 sec (16.324 average)

***** Running generation 597 *****

Population's average fitness: 29.66787 stdev: 124.34211
 Best fitness: 252.76774 - size: (28, 46) - species 4 - id 136597
 Average adjusted fitness: 0.424
 Mean genetic distance 2.633, standard deviation 0.699
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	146	137	252.8	0.468	3
5	115	113	240.7	0.380	69

Total extinctions: 0
 Generation time: 18.699 sec (16.513 average)

***** Running generation 598 *****

Population's average fitness: 31.99599 stdev: 125.87375
 Best fitness: 245.25643 - size: (24, 41) - species 5 - id 137724
 Average adjusted fitness: 0.544
 Mean genetic distance 2.685, standard deviation 0.670
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	147	134	240.6	0.570	4
5	116	116	245.3	0.519	70

Total extinctions: 0
 Generation time: 17.431 sec (16.581 average)

***** Running generation 599 *****

Population's average fitness: 36.36823 stdev: 130.70431
 Best fitness: 276.91513 - size: (24, 41) - species 5 - id 138116
 Average adjusted fitness: 0.415
 Mean genetic distance 2.689, standard deviation 0.634
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	148	133	246.1	0.441	5
5	117	117	276.9	0.389	71

Total extinctions: 0
 Generation time: 17.542 sec (16.754 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-599

***** Running generation 600 *****

Population's average fitness: 14.99823 stdev: 121.32885
 Best fitness: 247.36147 - size: (24, 41) - species 5 - id 137724
 Average adjusted fitness: 0.377
 Mean genetic distance 2.662, standard deviation 0.644
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	149	132	241.1	0.396	6
5	118	118	247.4	0.357	72

Total extinctions: 0
 Generation time: 15.283 sec (16.698 average)

***** Running generation 601 *****

Population's average fitness: 37.17766 stdev: 128.08822
 Best fitness: 252.10352 - size: (24, 36) - species 4 - id 138243
 Average adjusted fitness: 0.432
 Mean genetic distance 2.595, standard deviation 0.677
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	150	133	252.1	0.458	7
5	119	117	243.1	0.406	73

Total extinctions: 0
 Generation time: 16.924 sec (16.807 average)

***** Running generation 602 *****

Population's average fitness: 26.40565 stdev: 130.16664
 Best fitness: 277.09643 - size: (24, 43) - species 5 - id 138630
 Average adjusted fitness: 0.396
 Mean genetic distance 2.511, standard deviation 0.684
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	151	134	250.0	0.430	8
5	120	116	277.1	0.362	74

Total extinctions: 0
 Generation time: 15.047 sec (16.643 average)

***** Running generation 603 *****

Population's average fitness: 22.95241 stdev: 130.13972
 Best fitness: 244.96928 - size: (23, 39) - species 5 - id 139044
 Average adjusted fitness: 0.448
 Mean genetic distance 2.505, standard deviation 0.681
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	152	126	238.8	0.426	9
5	121	124	245.0	0.471	75

Total extinctions: 0
 Generation time: 14.669 sec (16.581 average)

***** Running generation 604 *****

Population's average fitness: 23.13661 stdev: 125.65846
 Best fitness: 248.93426 - size: (23, 39) - species 5 - id 139044
 Average adjusted fitness: 0.398
 Mean genetic distance 2.552, standard deviation 0.658

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	153	125	247.0	0.398	10
5	122	125	248.9	0.399	76

Total extinctions: 0

Generation time: 15.344 sec (16.381 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-604

***** Running generation 605 *****

Population's average fitness: 26.18671 stdev: 125.44409

Best fitness: 249.31710 - size: (24, 40) - species 5 - id 139448

Average adjusted fitness: 0.464

Mean genetic distance 2.577, standard deviation 0.658

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	154	128	236.5	0.485	11
5	123	122	249.3	0.444	77

Total extinctions: 0

Generation time: 16.392 sec (16.395 average)

***** Running generation 606 *****

Population's average fitness: 35.59033 stdev: 127.05998

Best fitness: 283.56588 - size: (24, 40) - species 5 - id 139666

Average adjusted fitness: 0.429

Mean genetic distance 2.576, standard deviation 0.691

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	155	132	259.8	0.465	12
5	124	118	283.6	0.393	78

Total extinctions: 0

Generation time: 16.376 sec (16.371 average)

***** Running generation 607 *****

Population's average fitness: 27.13404 stdev: 127.82451

Best fitness: 253.43456 - size: (30, 54) - species 4 - id 139786

Average adjusted fitness: 0.426

Mean genetic distance 2.548, standard deviation 0.731

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	156	131	253.4	0.441	13
5	125	119	243.2	0.412	79

Total extinctions: 0

Generation time: 15.561 sec (16.057 average)

***** Running generation 608 *****

Population's average fitness: 28.26564 stdev: 130.88835

Best fitness: 253.58453 - size: (28, 49) - species 4 - id 140140

Average adjusted fitness: 0.427

Mean genetic distance 2.473, standard deviation 0.775

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
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=====
====  ===  =====  =====  =====
      4  157   133    253.6    0.461    14
      5  126   117    248.8    0.394    80
Total extinctions: 0
Generation time: 15.581 sec (15.872 average)

```

***** Running generation 609 *****

```

Population's average fitness: 31.95647 stdev: 127.27455
Best fitness: 251.59275 - size: (27, 47) - species 4 - id 140431
Average adjusted fitness: 0.500
Mean genetic distance 2.516, standard deviation 0.719
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      4  158   134    251.6    0.542    15
      5  127   116    247.0    0.458    81
Total extinctions: 0
Generation time: 16.775 sec (15.795 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-609

```

***** Running generation 610 *****

```

Population's average fitness: 23.74047 stdev: 129.92268
Best fitness: 256.23654 - size: (28, 40) - species 4 - id 140576
Average adjusted fitness: 0.453
Mean genetic distance 2.481, standard deviation 0.722
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      4  159   136    256.2    0.498    16
      5  128   114    253.5    0.407    82
Total extinctions: 0
Generation time: 15.483 sec (15.815 average)

```

***** Running generation 611 *****

```

Population's average fitness: 32.37575 stdev: 129.51075
Best fitness: 249.40234 - size: (24, 37) - species 5 - id 140687
Average adjusted fitness: 0.424
Mean genetic distance 2.434, standard deviation 0.750
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      4  160   135    243.5    0.452    17
      5  129   115    249.4    0.397    83
Total extinctions: 0
Generation time: 16.366 sec (15.759 average)

```

***** Running generation 612 *****

```

Population's average fitness: 33.81951 stdev: 130.64167
Best fitness: 259.70193 - size: (28, 43) - species 4 - id 140924
Average adjusted fitness: 0.416
Mean genetic distance 2.459, standard deviation 0.733
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      4  161   134    259.7    0.448    18

```

5 130 116 258.4 0.383 84
 Total extinctions: 0
 Generation time: 15.932 sec (15.848 average)

***** Running generation 613 *****

Population's average fitness: 16.75965 stdev: 127.20661
 Best fitness: 257.96089 - size: (24, 42) - species 5 - id 141170
 Average adjusted fitness: 0.408
 Mean genetic distance 2.441, standard deviation 0.710
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	162	135	233.6	0.445	19
5	131	115	258.0	0.371	85

Total extinctions: 0
 Generation time: 15.469 sec (15.928 average)

***** Running generation 614 *****

Population's average fitness: 20.88682 stdev: 122.63441
 Best fitness: 243.34583 - size: (29, 45) - species 4 - id 141374
 Average adjusted fitness: 0.428
 Mean genetic distance 2.426, standard deviation 0.715
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	163	139	243.3	0.489	20
5	132	111	228.9	0.367	86

Total extinctions: 0
 Generation time: 16.206 sec (16.014 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-614

***** Running generation 615 *****

Population's average fitness: 15.78089 stdev: 125.31256
 Best fitness: 243.32403 - size: (27, 40) - species 4 - id 141744
 Average adjusted fitness: 0.404
 Mean genetic distance 2.420, standard deviation 0.723
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	164	135	243.3	0.424	21
5	133	115	237.6	0.384	87

Total extinctions: 0
 Generation time: 14.997 sec (15.875 average)

***** Running generation 616 *****

Population's average fitness: 6.30024 stdev: 121.75521
 Best fitness: 253.57975 - size: (27, 40) - species 4 - id 141744
 Average adjusted fitness: 0.394
 Mean genetic distance 2.523, standard deviation 0.697
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	165	134	253.6	0.424	22
5	134	116	250.2	0.364	88

Total extinctions: 0

Generation time: 15.320 sec (15.769 average)

***** Running generation 617 *****

Population's average fitness: 8.47754 stdev: 118.21279
 Best fitness: 225.82028 - size: (28, 48) - species 4 - id 142288
 Average adjusted fitness: 0.398
 Mean genetic distance 2.560, standard deviation 0.672
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	166	135	225.8	0.430	23
5	135	115	224.0	0.367	89

Total extinctions: 0
 Generation time: 15.613 sec (15.774 average)

***** Running generation 618 *****

Population's average fitness: 1.24851 stdev: 120.94630
 Best fitness: 261.26900 - size: (23, 35) - species 5 - id 142303
 Average adjusted fitness: 0.369
 Mean genetic distance 2.568, standard deviation 0.646
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	167	132	221.1	0.381	24
5	136	118	261.3	0.357	90

Total extinctions: 0
 Generation time: 14.893 sec (15.706 average)

***** Running generation 619 *****

Population's average fitness: 4.46931 stdev: 121.27633
 Best fitness: 249.95485 - size: (24, 36) - species 5 - id 142342
 Average adjusted fitness: 0.416
 Mean genetic distance 2.558, standard deviation 0.676
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	168	133	236.8	0.439	25
5	137	117	250.0	0.392	91

Total extinctions: 0
 Generation time: 15.498 sec (15.578 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-619

***** Running generation 620 *****

Population's average fitness: 18.53789 stdev: 123.47443
 Best fitness: 235.56472 - size: (24, 41) - species 5 - id 142914
 Average adjusted fitness: 0.456
 Mean genetic distance 2.532, standard deviation 0.682
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	169	134	230.4	0.492	26
5	138	116	235.6	0.419	92

Total extinctions: 0
 Generation time: 16.437 sec (15.673 average)

***** Running generation 621 *****

Population's average fitness: 37.30661 stdev: 127.28135
 Best fitness: 272.77775 - size: (24, 36) - species 5 - id 142342
 Average adjusted fitness: 0.434
 Mean genetic distance 2.598, standard deviation 0.715
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	170	135	247.5	0.468	27
5	139	115	272.8	0.401	93

Total extinctions: 0
 Generation time: 17.603 sec (15.797 average)

***** Running generation 622 *****

Population's average fitness: 17.63260 stdev: 120.43532
 Best fitness: 234.24054 - size: (26, 39) - species 4 - id 143249
 Average adjusted fitness: 0.417
 Mean genetic distance 2.644, standard deviation 0.674
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	171	131	234.2	0.425	28
5	140	119	229.2	0.409	94

Total extinctions: 0
 Generation time: 16.054 sec (15.809 average)

***** Running generation 623 *****

Population's average fitness: 10.96683 stdev: 124.24384
 Best fitness: 258.93782 - size: (23, 37) - species 5 - id 143454
 Average adjusted fitness: 0.390
 Mean genetic distance 2.662, standard deviation 0.603
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	172	133	251.4	0.424	29
5	141	117	258.9	0.356	95

Total extinctions: 0
 Generation time: 15.181 sec (15.780 average)

***** Running generation 624 *****

Population's average fitness: 27.11988 stdev: 125.83350
 Best fitness: 249.31855 - size: (25, 44) - species 5 - id 143876
 Average adjusted fitness: 0.435
 Mean genetic distance 2.635, standard deviation 0.710
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	173	137	239.6	0.492	30
5	142	113	249.3	0.379	96

Total extinctions: 0
 Generation time: 16.693 sec (15.829 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-624

***** Running generation 625 *****

Population's average fitness: 21.02556 stdev: 125.83463
 Best fitness: 243.00001 - size: (23, 38) - species 5 - id 143854
 Average adjusted fitness: 0.435
 Mean genetic distance 2.589, standard deviation 0.853
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	174	139	242.2	0.487	31
5	143	111	243.0	0.383	97

Total extinctions: 0
 Generation time: 16.117 sec (15.941 average)

***** Running generation 626 *****

Population's average fitness: 3.70032 stdev: 126.98464
 Best fitness: 235.21941 - size: (25, 39) - species 4 - id 143973
 Average adjusted fitness: 0.394
 Mean genetic distance 2.611, standard deviation 0.830
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	175	132	235.2	0.393	32
5	144	118	225.1	0.396	98

Total extinctions: 0
 Generation time: 14.098 sec (15.819 average)

***** Running generation 627 *****

Population's average fitness: 22.81944 stdev: 124.00502
 Best fitness: 253.91924 - size: (24, 43) - species 5 - id 143529
 Average adjusted fitness: 0.409
 Mean genetic distance 2.527, standard deviation 0.849
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	176	133	240.5	0.433	33
5	145	117	253.9	0.386	99

Total extinctions: 0
 Generation time: 16.072 sec (15.865 average)

***** Running generation 628 *****

Population's average fitness: 21.73457 stdev: 123.27320
 Best fitness: 242.10039 - size: (28, 45) - species 4 - id 144706
 Average adjusted fitness: 0.417
 Mean genetic distance 2.550, standard deviation 0.839
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	177	132	242.1	0.440	34
5	146	118	231.6	0.394	100

Total extinctions: 0
 Generation time: 15.978 sec (15.973 average)

***** Running generation 629 *****

Population's average fitness: 24.05561 stdev: 123.98079
 Best fitness: 244.13097 - size: (27, 40) - species 4 - id 145001
 Average adjusted fitness: 0.431
 Mean genetic distance 2.595, standard deviation 0.810

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	178	135	244.1	0.474	35
5	147	115	211.3	0.388	101

Total extinctions: 0

Generation time: 16.020 sec (16.025 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-629

***** Running generation 630 *****

Population's average fitness: 15.06513 stdev: 121.69140

Best fitness: 253.07941 - size: (24, 44) - species 5 - id 145153

Average adjusted fitness: 0.389

Mean genetic distance 2.573, standard deviation 0.861

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	179	127	240.8	0.368	36
5	148	123	253.1	0.409	102

Total extinctions: 0

Generation time: 15.919 sec (15.973 average)

***** Running generation 631 *****

Population's average fitness: 22.34727 stdev: 126.35032

Best fitness: 245.74491 - size: (27, 44) - species 4 - id 145331

Average adjusted fitness: 0.442

Mean genetic distance 2.610, standard deviation 0.799

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	180	125	245.7	0.435	37
5	149	125	216.5	0.449	103

Total extinctions: 0

Generation time: 15.618 sec (15.775 average)

***** Running generation 632 *****

Population's average fitness: 33.59897 stdev: 119.77454

Best fitness: 247.05829 - size: (25, 41) - species 4 - id 145718

Average adjusted fitness: 0.436

Mean genetic distance 2.636, standard deviation 0.793

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	181	123	247.1	0.422	38
5	150	127	231.3	0.450	104

Total extinctions: 0

Generation time: 17.207 sec (15.890 average)

***** Running generation 633 *****

Population's average fitness: 14.17639 stdev: 120.70543

Best fitness: 256.24586 - size: (23, 40) - species 5 - id 145511

Average adjusted fitness: 0.415

Mean genetic distance 2.619, standard deviation 0.807

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
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=====
====  ===  =====  =====  =====
      4  182   121    224.0    0.396    39
      5  151   129    256.2    0.434   105
Total extinctions: 0
Generation time: 16.174 sec (15.990 average)

```

***** Running generation 634 *****

```

Population's average fitness: 19.90445 stdev: 122.73720
Best fitness: 238.31209 - size: (28, 42) - species 4 - id 146074
Average adjusted fitness: 0.405
Mean genetic distance 2.571, standard deviation 0.813
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      4  183   119    238.3    0.379    40
      5  152   131    231.1    0.431   106
Total extinctions: 0
Generation time: 16.171 sec (15.937 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-634

```

***** Running generation 635 *****

```

Population's average fitness: 26.55951 stdev: 123.66509
Best fitness: 242.77108 - size: (27, 42) - species 4 - id 145969
Average adjusted fitness: 0.454
Mean genetic distance 2.544, standard deviation 0.838
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      4  184   121    242.8    0.443    41
      5  153   129    239.8    0.464   107
Total extinctions: 0
Generation time: 16.233 sec (15.949 average)

```

***** Running generation 636 *****

```

Population's average fitness: 36.40352 stdev: 122.82389
Best fitness: 232.61778 - size: (25, 45) - species 5 - id 146511
Average adjusted fitness: 0.453
Mean genetic distance 2.624, standard deviation 0.781
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      4  185   129    228.4    0.500    42
      5  154   121    232.6    0.407   108
Total extinctions: 0
Generation time: 17.101 sec (16.249 average)

```

***** Running generation 637 *****

```

Population's average fitness: 23.67621 stdev: 121.35968
Best fitness: 239.08376 - size: (24, 45) - species 5 - id 146462
Average adjusted fitness: 0.488
Mean genetic distance 2.682, standard deviation 0.759
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      4  186   127    220.2    0.491    43

```

5 155 123 239.1 0.485 109
 Total extinctions: 0
 Generation time: 15.923 sec (16.234 average)

***** Running generation 638 *****

Population's average fitness: 28.32428 stdev: 122.43705
 Best fitness: 241.06064 - size: (26, 42) - species 4 - id 146973
 Average adjusted fitness: 0.431
 Mean genetic distance 2.672, standard deviation 0.756
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	187	128	241.1	0.438	44
5	156	122	240.4	0.424	110

Total extinctions: 0
 Generation time: 16.628 sec (16.299 average)

***** Running generation 639 *****

Population's average fitness: 30.33663 stdev: 121.46654
 Best fitness: 249.09456 - size: (24, 44) - species 5 - id 147036
 Average adjusted fitness: 0.441
 Mean genetic distance 2.692, standard deviation 0.718
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	188	130	233.6	0.468	45
5	157	120	249.1	0.414	111

Total extinctions: 0
 Generation time: 16.754 sec (16.373 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-639

***** Running generation 640 *****

Population's average fitness: 32.36618 stdev: 124.67424
 Best fitness: 239.21127 - size: (25, 43) - species 5 - id 147498
 Average adjusted fitness: 0.437
 Mean genetic distance 2.623, standard deviation 0.814
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	189	133	233.1	0.474	46
5	158	117	239.2	0.401	112

Total extinctions: 0
 Generation time: 16.158 sec (16.397 average)

***** Running generation 641 *****

Population's average fitness: 17.36981 stdev: 122.55828
 Best fitness: 238.37925 - size: (27, 42) - species 4 - id 147623
 Average adjusted fitness: 0.412
 Mean genetic distance 2.654, standard deviation 0.775
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	190	131	238.4	0.425	47
5	159	119	227.9	0.400	113

Total extinctions: 0

Generation time: 15.615 sec (16.396 average)

***** Running generation 642 *****

Population's average fitness: 22.51678 stdev: 124.71792
 Best fitness: 266.82524 - size: (23, 33) - species 4 - id 147607
 Average adjusted fitness: 0.416
 Mean genetic distance 2.633, standard deviation 0.787
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	191	130	266.8	0.434	48
5	160	120	230.3	0.398	114

Total extinctions: 0
 Generation time: 14.984 sec (16.174 average)

***** Running generation 643 *****

Population's average fitness: 16.66526 stdev: 121.06613
 Best fitness: 244.17424 - size: (23, 33) - species 4 - id 148202
 Average adjusted fitness: 0.414
 Mean genetic distance 2.707, standard deviation 0.723
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	192	120	244.2	0.366	49
5	161	130	242.2	0.462	115

Total extinctions: 0
 Generation time: 15.429 sec (16.100 average)

***** Running generation 644 *****

Population's average fitness: 28.17059 stdev: 122.75908
 Best fitness: 251.89031 - size: (26, 37) - species 4 - id 148484
 Average adjusted fitness: 0.434
 Mean genetic distance 2.705, standard deviation 0.720
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	193	124	251.9	0.443	50
5	162	126	246.8	0.424	116

Total extinctions: 0
 Generation time: 16.104 sec (16.093 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-644

***** Running generation 645 *****

Population's average fitness: 26.73159 stdev: 121.08674
 Best fitness: 255.03967 - size: (25, 42) - species 5 - id 148586
 Average adjusted fitness: 0.423
 Mean genetic distance 2.708, standard deviation 0.750
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	194	127	245.1	0.438	51
5	163	123	255.0	0.407	117

Total extinctions: 0
 Generation time: 16.688 sec (16.138 average)

***** Running generation 646 *****

Population's average fitness: 25.46741 stdev: 122.83163
 Best fitness: 244.70311 - size: (26, 51) - species 5 - id 148884
 Average adjusted fitness: 0.451
 Mean genetic distance 2.766, standard deviation 0.753
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	195	130	238.3	0.482	52
5	164	120	244.7	0.420	118

Total extinctions: 0
 Generation time: 15.790 sec (16.007 average)

***** Running generation 647 *****

Population's average fitness: 11.40985 stdev: 123.62507
 Best fitness: 264.60714 - size: (25, 47) - species 5 - id 148923
 Average adjusted fitness: 0.368
 Mean genetic distance 2.717, standard deviation 0.752
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	196	134	238.4	0.408	53
5	165	116	264.6	0.328	119

Total extinctions: 0
 Generation time: 15.308 sec (15.946 average)

***** Running generation 648 *****

Population's average fitness: 16.90992 stdev: 123.08940
 Best fitness: 230.80824 - size: (27, 43) - species 4 - id 149260
 Average adjusted fitness: 0.407
 Mean genetic distance 2.700, standard deviation 0.744
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	197	132	230.8	0.425	54
5	166	118	224.4	0.388	120

Total extinctions: 0
 Generation time: 15.490 sec (15.832 average)

***** Running generation 649 *****

Population's average fitness: 26.23495 stdev: 125.57062
 Best fitness: 248.64349 - size: (22, 30) - species 4 - id 149274
 Average adjusted fitness: 0.425
 Mean genetic distance 2.703, standard deviation 0.744
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	198	130	248.6	0.436	55
5	167	120	234.2	0.414	121

Total extinctions: 0
 Generation time: 15.303 sec (15.687 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-649

***** Running generation 650 *****

Population's average fitness: 16.22063 stdev: 123.01779
 Best fitness: 240.35670 - size: (25, 44) - species 5 - id 149169
 Average adjusted fitness: 0.434
 Mean genetic distance 2.706, standard deviation 0.773
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	199	129	228.8	0.447	56
5	168	121	240.4	0.420	122

Total extinctions: 0
 Generation time: 15.285 sec (15.600 average)

***** Running generation 651 *****

Population's average fitness: 26.06974 stdev: 123.84351
 Best fitness: 242.34241 - size: (25, 42) - species 5 - id 149088
 Average adjusted fitness: 0.453
 Mean genetic distance 2.711, standard deviation 0.774
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
4	200	127	228.8	0.454	57
5	169	123	242.3	0.452	123

Total extinctions: 0
 Generation time: 15.939 sec (15.632 average)

***** Running generation 652 *****

Population's average fitness: 21.18545 stdev: 126.87131
 Best fitness: 247.82482 - size: (25, 44) - species 5 - id 150247
 Average adjusted fitness: 0.446
 Mean genetic distance 2.744, standard deviation 0.731
 Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
4	201	93	240.1	0.463	58
5	170	122	247.8	0.429	124
6	0	35	--	--	0

Total extinctions: 0
 Generation time: 15.611 sec (15.695 average)

***** Running generation 653 *****

Population's average fitness: 26.60863 stdev: 126.71812
 Best fitness: 248.98727 - size: (27, 47) - species 5 - id 150477
 Average adjusted fitness: 0.462
 Mean genetic distance 2.802, standard deviation 0.682
 Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
4	202	45	230.3	0.416	59
5	171	110	249.0	0.540	125
6	1	95	210.6	0.430	0

Total extinctions: 0
 Generation time: 15.495 sec (15.701 average)

***** Running generation 654 *****

Population's average fitness: 32.27953 stdev: 126.20363
 Best fitness: 250.58717 - size: (24, 38) - species 5 - id 150697

Species 4 with 45 members is stagnated: removing it

Average adjusted fitness: 0.439

Mean genetic distance 2.644, standard deviation 0.798

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	172	135	250.6	0.479	126
6	2	115	229.1	0.400	0

Total extinctions: 0

Generation time: 16.147 sec (15.706 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-654

***** Running generation 655 *****

Population's average fitness: 31.15924 stdev: 128.03945

Best fitness: 274.36965 - size: (25, 42) - species 5 - id 150999

Average adjusted fitness: 0.409

Mean genetic distance 2.659, standard deviation 0.735

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	173	129	274.4	0.399	127
6	3	121	242.5	0.419	0

Total extinctions: 0

Generation time: 16.152 sec (15.652 average)

***** Running generation 656 *****

Population's average fitness: 29.97372 stdev: 122.21642

Best fitness: 245.79715 - size: (24, 40) - species 5 - id 150772

Average adjusted fitness: 0.448

Mean genetic distance 2.734, standard deviation 0.702

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	174	133	245.8	0.490	128
6	4	117	210.9	0.405	1

Total extinctions: 0

Generation time: 16.163 sec (15.689 average)

***** Running generation 657 *****

Population's average fitness: 27.76206 stdev: 125.24686

Best fitness: 248.33203 - size: (26, 50) - species 5 - id 151457

Average adjusted fitness: 0.449

Mean genetic distance 2.654, standard deviation 0.702

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	175	132	248.3	0.468	129
6	5	118	211.7	0.430	2

Total extinctions: 0

Generation time: 15.392 sec (15.698 average)

***** Running generation 658 *****

Population's average fitness: 18.42231 stdev: 128.36884

Best fitness: 280.56995 - size: (24, 38) - species 5 - id 151699

Average adjusted fitness: 0.370
 Mean genetic distance 2.634, standard deviation 0.716
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	176	128	280.6	0.368	130
6	6	122	226.8	0.371	3

 Total extinctions: 0
 Generation time: 14.449 sec (15.594 average)

***** Running generation 659 *****

Population's average fitness: 21.60483 stdev: 122.97027
 Best fitness: 283.38322 - size: (26, 49) - species 5 - id 151822
 Average adjusted fitness: 0.391
 Mean genetic distance 2.656, standard deviation 0.725
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	177	127	283.4	0.396	131
6	7	123	243.2	0.387	0

 Total extinctions: 0
 Generation time: 15.919 sec (15.655 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-659

***** Running generation 660 *****

Population's average fitness: 25.68717 stdev: 125.42831
 Best fitness: 258.18045 - size: (26, 41) - species 5 - id 152100
 Average adjusted fitness: 0.439
 Mean genetic distance 2.651, standard deviation 0.757
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	178	128	258.2	0.456	132
6	8	122	243.6	0.423	0

 Total extinctions: 0
 Generation time: 15.673 sec (15.694 average)

***** Running generation 661 *****

Population's average fitness: 14.91140 stdev: 123.85157
 Best fitness: 242.76429 - size: (26, 41) - species 5 - id 152100
 Average adjusted fitness: 0.427
 Mean genetic distance 2.700, standard deviation 0.686
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	179	127	242.8	0.428	133
6	9	123	238.5	0.427	1

 Total extinctions: 0
 Generation time: 14.497 sec (15.550 average)

***** Running generation 662 *****

Population's average fitness: 12.74526 stdev: 123.23790
 Best fitness: 243.13943 - size: (25, 43) - species 5 - id 152334
 Average adjusted fitness: 0.397
 Mean genetic distance 2.667, standard deviation 0.698

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	180	131	243.1	0.427	134
6	10	119	239.2	0.367	2

Total extinctions: 0

Generation time: 14.580 sec (15.447 average)

***** Running generation 663 *****

Population's average fitness: 39.70834 stdev: 119.61823

Best fitness: 252.84120 - size: (23, 34) - species 5 - id 152787

Average adjusted fitness: 0.442

Mean genetic distance 2.656, standard deviation 0.735

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	181	128	252.8	0.441	135
6	11	122	222.2	0.442	3

Total extinctions: 0

Generation time: 16.661 sec (15.563 average)

***** Running generation 664 *****

Population's average fitness: 31.39256 stdev: 121.39039

Best fitness: 272.12562 - size: (26, 46) - species 5 - id 152617

Average adjusted fitness: 0.428

Mean genetic distance 2.614, standard deviation 0.717

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	182	124	272.1	0.412	136
6	12	126	237.9	0.444	4

Total extinctions: 0

Generation time: 15.837 sec (15.532 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-664

***** Running generation 665 *****

Population's average fitness: 30.75318 stdev: 123.16175

Best fitness: 233.19584 - size: (25, 51) - species 5 - id 153274

Average adjusted fitness: 0.451

Mean genetic distance 2.624, standard deviation 0.701

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	183	120	233.2	0.419	137
6	13	130	225.9	0.484	5

Total extinctions: 0

Generation time: 15.799 sec (15.497 average)

***** Running generation 666 *****

Population's average fitness: 18.65608 stdev: 124.52182

Best fitness: 241.85681 - size: (26, 50) - species 5 - id 153527

Average adjusted fitness: 0.444

Mean genetic distance 2.583, standard deviation 0.706

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

```

=====
5  184  121  241.9  0.436  138
6   14  129  217.7  0.451   6
Total extinctions: 0
Generation time: 15.369 sec (15.418 average)

```

***** Running generation 667 *****

```

Population's average fitness: 34.39836 stdev: 130.33737
Best fitness: 260.48633 - size: (21, 34) - species 6 - id 153354
Average adjusted fitness: 0.497
Mean genetic distance 2.432, standard deviation 0.714
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
5  185  125  258.5  0.510  139
6   15  125  260.5  0.483   0
Total extinctions: 0
Generation time: 16.156 sec (15.494 average)

```

***** Running generation 668 *****

```

Population's average fitness: 9.70174 stdev: 121.47633
Best fitness: 241.14641 - size: (25, 39) - species 5 - id 153241
Average adjusted fitness: 0.378
Mean genetic distance 2.437, standard deviation 0.716
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
5  186  122  241.1  0.360  140
6   16  128  232.6  0.397   1
Total extinctions: 0
Generation time: 14.619 sec (15.511 average)

```

***** Running generation 669 *****

```

Population's average fitness: 19.56163 stdev: 124.27390
Best fitness: 252.62213 - size: (26, 49) - species 5 - id 154157
Average adjusted fitness: 0.425
Mean genetic distance 2.434, standard deviation 0.712
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
5  187  121  252.6  0.412  141
6   17  129  236.2  0.438   2
Total extinctions: 0
Generation time: 15.623 sec (15.481 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-669

```

***** Running generation 670 *****

```

Population's average fitness: 14.99070 stdev: 123.56933
Best fitness: 248.66565 - size: (25, 40) - species 5 - id 154445
Average adjusted fitness: 0.412
Mean genetic distance 2.498, standard deviation 0.658
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
5  188  122  248.7  0.399  142

```

6 18 128 242.5 0.424 3
 Total extinctions: 0
 Generation time: 15.632 sec (15.477 average)

***** Running generation 671 *****

Population's average fitness: 27.74065 stdev: 125.10297
 Best fitness: 246.95037 - size: (26, 49) - species 5 - id 154157
 Average adjusted fitness: 0.426
 Mean genetic distance 2.570, standard deviation 0.677
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	189	121	247.0	0.414	143
6	19	129	243.3	0.439	4

Total extinctions: 0
 Generation time: 16.072 sec (15.635 average)

***** Running generation 672 *****

Population's average fitness: 17.39136 stdev: 120.82187
 Best fitness: 262.39752 - size: (24, 36) - species 5 - id 154885
 Average adjusted fitness: 0.386
 Mean genetic distance 2.615, standard deviation 0.728
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	190	123	262.4	0.385	144
6	20	127	255.5	0.388	5

Total extinctions: 0
 Generation time: 15.310 sec (15.708 average)

***** Running generation 673 *****

Population's average fitness: 25.73870 stdev: 126.50973
 Best fitness: 270.67765 - size: (26, 40) - species 5 - id 154892
 Average adjusted fitness: 0.396
 Mean genetic distance 2.566, standard deviation 0.784
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	191	125	270.7	0.405	145
6	21	125	217.7	0.388	6

Total extinctions: 0
 Generation time: 15.559 sec (15.598 average)

***** Running generation 674 *****

Population's average fitness: 23.35279 stdev: 124.57801
 Best fitness: 258.84573 - size: (26, 53) - species 5 - id 155369
 Average adjusted fitness: 0.414
 Mean genetic distance 2.537, standard deviation 0.776
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	192	122	258.8	0.393	146
6	22	128	245.9	0.434	7

Total extinctions: 0
 Generation time: 15.544 sec (15.568 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti

walker_Run1\neat-checkpoint-674

***** Running generation 675 *****

Population's average fitness: 23.45992 stdev: 127.74126
 Best fitness: 278.07262 - size: (26, 51) - species 5 - id 155595
 Average adjusted fitness: 0.400
 Mean genetic distance 2.565, standard deviation 0.778
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	193	121	278.1	0.386	147
6	23	129	228.4	0.415	8

Total extinctions: 0
 Generation time: 15.510 sec (15.539 average)

***** Running generation 676 *****

Population's average fitness: 11.35102 stdev: 121.67455
 Best fitness: 274.14590 - size: (26, 51) - species 5 - id 155595
 Average adjusted fitness: 0.381
 Mean genetic distance 2.603, standard deviation 0.739
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	194	123	274.1	0.381	148
6	24	127	225.7	0.380	9

Total extinctions: 0
 Generation time: 15.154 sec (15.518 average)

***** Running generation 677 *****

Population's average fitness: 24.21712 stdev: 120.78890
 Best fitness: 257.15828 - size: (26, 50) - species 5 - id 155753
 Average adjusted fitness: 0.482
 Mean genetic distance 2.576, standard deviation 0.761
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	195	124	257.2	0.482	149
6	25	126	242.7	0.482	10

Total extinctions: 0
 Generation time: 16.297 sec (15.532 average)

***** Running generation 678 *****

Population's average fitness: 11.19885 stdev: 126.59725
 Best fitness: 265.28943 - size: (27, 55) - species 5 - id 156046
 Average adjusted fitness: 0.398
 Mean genetic distance 2.571, standard deviation 0.726
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	196	120	265.3	0.370	150
6	26	130	232.5	0.426	11

Total extinctions: 0
 Generation time: 14.539 sec (15.524 average)

***** Running generation 679 *****

Population's average fitness: 26.71412 stdev: 127.99763
 Best fitness: 258.02341 - size: (26, 50) - species 5 - id 155753
 Average adjusted fitness: 0.448
 Mean genetic distance 2.602, standard deviation 0.643
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	197	119	258.0	0.429	151
6	27	131	232.1	0.467	12

Total extinctions: 0
 Generation time: 15.048 sec (15.467 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-679

***** Running generation 680 *****

Population's average fitness: 16.98896 stdev: 125.26300
 Best fitness: 276.68466 - size: (28, 51) - species 5 - id 156742
 Average adjusted fitness: 0.374
 Mean genetic distance 2.555, standard deviation 0.688
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	198	120	276.7	0.364	152
6	28	130	232.1	0.383	13

Total extinctions: 0
 Generation time: 15.096 sec (15.413 average)

***** Running generation 681 *****

Population's average fitness: 23.76757 stdev: 123.33183
 Best fitness: 244.55670 - size: (25, 42) - species 5 - id 156934
 Average adjusted fitness: 0.439
 Mean genetic distance 2.569, standard deviation 0.663
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	199	122	244.6	0.436	153
6	29	128	224.5	0.442	14

Total extinctions: 0
 Generation time: 15.238 sec (15.330 average)

***** Running generation 682 *****

Population's average fitness: 35.30754 stdev: 125.36994
 Best fitness: 253.32879 - size: (24, 35) - species 6 - id 157096
 Average adjusted fitness: 0.494
 Mean genetic distance 2.606, standard deviation 0.636
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	200	123	251.9	0.484	154
6	30	127	253.3	0.504	15

Total extinctions: 0
 Generation time: 16.151 sec (15.414 average)

***** Running generation 683 *****

Population's average fitness: 19.43295 stdev: 126.79311
 Best fitness: 244.70904 - size: (27, 51) - species 5 - id 157317

Average adjusted fitness: 0.424

Mean genetic distance 2.649, standard deviation 0.618

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	201	122	244.7	0.417	155
6	31	128	237.7	0.431	16

Total extinctions: 0

Generation time: 15.409 sec (15.399 average)

***** Running generation 684 *****

Population's average fitness: 17.62198 stdev: 121.15642

Best fitness: 250.72361 - size: (26, 44) - species 5 - id 157662

Average adjusted fitness: 0.397

Mean genetic distance 2.694, standard deviation 0.595

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	202	117	250.7	0.354	156
6	32	133	233.2	0.440	17

Total extinctions: 0

Generation time: 15.564 sec (15.401 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti walker_Run1\neat-checkpoint-684

***** Running generation 685 *****

Population's average fitness: 25.84765 stdev: 126.19430

Best fitness: 252.47885 - size: (27, 54) - species 5 - id 157816

Average adjusted fitness: 0.426

Mean genetic distance 2.735, standard deviation 0.591

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	203	121	252.5	0.428	157
6	33	129	237.8	0.424	18

Total extinctions: 0

Generation time: 15.635 sec (15.413 average)

***** Running generation 686 *****

Population's average fitness: 15.77446 stdev: 122.95267

Best fitness: 277.05332 - size: (27, 54) - species 5 - id 158112

Average adjusted fitness: 0.359

Mean genetic distance 2.688, standard deviation 0.646

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	204	116	277.1	0.319	158
6	34	134	243.6	0.400	19

Total extinctions: 0

Generation time: 15.544 sec (15.452 average)

***** Running generation 687 *****

Population's average fitness: 28.28897 stdev: 129.61882

Best fitness: 250.00137 - size: (26, 47) - species 5 - id 158274

Average adjusted fitness: 0.457

Mean genetic distance 2.644, standard deviation 0.703

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	205	119	250.0	0.444	159
6	35	131	245.9	0.470	20

Total extinctions: 0

Generation time: 15.348 sec (15.357 average)

***** Running generation 688 *****

Population's average fitness: 25.31900 stdev: 126.58507

Best fitness: 258.90586 - size: (26, 48) - species 5 - id 158350

Average adjusted fitness: 0.468

Mean genetic distance 2.635, standard deviation 0.730

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	206	121	258.9	0.459	160
6	36	129	254.7	0.478	21

Total extinctions: 0

Generation time: 15.459 sec (15.449 average)

***** Running generation 689 *****

Population's average fitness: 26.55893 stdev: 119.67808

Best fitness: 263.19932 - size: (25, 40) - species 5 - id 158595

Average adjusted fitness: 0.431

Mean genetic distance 2.665, standard deviation 0.693

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	207	123	263.2	0.434	161
6	37	127	224.0	0.428	22

Total extinctions: 0

Generation time: 16.224 sec (15.567 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-689

***** Running generation 690 *****

Population's average fitness: 27.93232 stdev: 125.58105

Best fitness: 246.04446 - size: (25, 48) - species 5 - id 157304

Average adjusted fitness: 0.438

Mean genetic distance 2.638, standard deviation 0.720

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	208	116	246.0	0.385	162
6	38	134	243.2	0.491	23

Total extinctions: 0

Generation time: 16.389 sec (15.696 average)

***** Running generation 691 *****

Population's average fitness: 35.44742 stdev: 120.87661

Best fitness: 243.23705 - size: (23, 38) - species 6 - id 158871

Average adjusted fitness: 0.438

Mean genetic distance 2.653, standard deviation 0.732

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

```

=====
====  ===  =====  =====  =====
      5  209   119    238.3    0.428   163
      6   39   131    243.2    0.449   24
Total extinctions: 0
Generation time: 16.397 sec (15.812 average)

```

***** Running generation 692 *****

```

Population's average fitness: 22.34415 stdev: 127.32165
Best fitness: 260.12804 - size: (28, 48) - species 5 - id 159314
Average adjusted fitness: 0.433
Mean genetic distance 2.683, standard deviation 0.756
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      5  210   120    260.1    0.412   164
      6   40   130    238.2    0.453   25
Total extinctions: 0
Generation time: 15.572 sec (15.754 average)

```

***** Running generation 693 *****

```

Population's average fitness: 21.17957 stdev: 129.30528
Best fitness: 268.63259 - size: (28, 50) - species 5 - id 159697
Average adjusted fitness: 0.398
Mean genetic distance 2.737, standard deviation 0.736
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      5  211   128    268.6    0.430   165
      6   41   122    234.0    0.366   26
Total extinctions: 0
Generation time: 15.121 sec (15.725 average)

```

***** Running generation 694 *****

```

Population's average fitness: 19.62462 stdev: 129.96207
Best fitness: 265.93967 - size: (29, 49) - species 5 - id 159325
Average adjusted fitness: 0.394
Mean genetic distance 2.672, standard deviation 0.734
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      5  212   122    265.9    0.363   166
      6   42   128    249.4    0.425   27
Total extinctions: 0
Generation time: 14.750 sec (15.644 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-694

```

***** Running generation 695 *****

```

Population's average fitness: 44.36643 stdev: 124.81558
Best fitness: 249.53523 - size: (22, 35) - species 6 - id 160004
Average adjusted fitness: 0.469
Mean genetic distance 2.651, standard deviation 0.702
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      5  213   121    246.3    0.447   167

```


6 43 129 249.5 0.490 28
 Total extinctions: 0
 Generation time: 17.186 sec (15.799 average)

***** Running generation 696 *****

Population's average fitness: 26.88482 stdev: 128.00109
 Best fitness: 270.07957 - size: (25, 42) - species 5 - id 160302
 Average adjusted fitness: 0.404
 Mean genetic distance 2.556, standard deviation 0.753
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	214	123	270.1	0.405	168
6	44	127	236.0	0.404	29

Total extinctions: 0
 Generation time: 15.486 sec (15.793 average)

***** Running generation 697 *****

Population's average fitness: 26.31521 stdev: 129.57196
 Best fitness: 259.83341 - size: (28, 51) - species 5 - id 160588
 Average adjusted fitness: 0.453
 Mean genetic distance 2.565, standard deviation 0.754
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	215	122	259.8	0.437	169
6	45	128	239.2	0.470	30

Total extinctions: 0
 Generation time: 15.737 sec (15.832 average)

***** Running generation 698 *****

Population's average fitness: 36.65193 stdev: 132.94327
 Best fitness: 288.51539 - size: (25, 41) - species 5 - id 160586
 Average adjusted fitness: 0.396
 Mean genetic distance 2.578, standard deviation 0.729
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	216	123	288.5	0.396	0
6	46	127	233.6	0.396	31

Total extinctions: 0
 Generation time: 15.354 sec (15.822 average)

***** Running generation 699 *****

Population's average fitness: 27.82668 stdev: 128.00833
 Best fitness: 257.06439 - size: (26, 44) - species 5 - id 160135
 Average adjusted fitness: 0.415
 Mean genetic distance 2.560, standard deviation 0.694
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	217	124	257.1	0.413	1
6	47	126	234.7	0.418	32

Total extinctions: 0
 Generation time: 15.309 sec (15.730 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti

walker_Run1\neat-checkpoint-699

***** Running generation 700 *****

Population's average fitness: 21.65008 stdev: 127.86878
 Best fitness: 255.03299 - size: (25, 39) - species 5 - id 160821
 Average adjusted fitness: 0.416
 Mean genetic distance 2.508, standard deviation 0.811
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	218	128	255.0	0.439	2
6	48	122	254.8	0.394	33

Total extinctions: 0
 Generation time: 15.116 sec (15.603 average)

***** Running generation 701 *****

Population's average fitness: 34.23502 stdev: 122.24751
 Best fitness: 238.10762 - size: (23, 36) - species 6 - id 161408
 Average adjusted fitness: 0.476
 Mean genetic distance 2.590, standard deviation 0.724
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	219	129	236.8	0.489	3
6	49	121	238.1	0.464	34

Total extinctions: 0
 Generation time: 16.969 sec (15.660 average)

***** Running generation 702 *****

Population's average fitness: 27.95575 stdev: 127.03452
 Best fitness: 267.99296 - size: (25, 37) - species 5 - id 161049
 Average adjusted fitness: 0.427
 Mean genetic distance 2.626, standard deviation 0.685
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	220	124	268.0	0.405	4
6	50	126	220.6	0.449	35

Total extinctions: 0
 Generation time: 16.393 sec (15.742 average)

***** Running generation 703 *****

Population's average fitness: 27.85746 stdev: 130.65414
 Best fitness: 265.85496 - size: (24, 35) - species 6 - id 161900
 Average adjusted fitness: 0.396
 Mean genetic distance 2.602, standard deviation 0.682
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	221	125	260.6	0.395	5
6	51	125	265.9	0.397	0

Total extinctions: 0
 Generation time: 15.382 sec (15.768 average)

***** Running generation 704 *****

Population's average fitness: 40.70592 stdev: 130.15287
 Best fitness: 280.59512 - size: (24, 40) - species 5 - id 161983
 Average adjusted fitness: 0.415
 Mean genetic distance 2.665, standard deviation 0.707
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	222	126	280.6	0.424	6
6	52	124	229.9	0.406	1

Total extinctions: 0
 Generation time: 16.731 sec (15.966 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-704

***** Running generation 705 *****

Population's average fitness: 19.63697 stdev: 124.39361
 Best fitness: 277.01058 - size: (24, 39) - species 5 - id 162514
 Average adjusted fitness: 0.387
 Mean genetic distance 2.658, standard deviation 0.764
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	223	127	277.0	0.394	7
6	53	123	232.1	0.380	2

Total extinctions: 0
 Generation time: 15.209 sec (15.769 average)

***** Running generation 706 *****

Population's average fitness: 24.61593 stdev: 127.37741
 Best fitness: 248.53456 - size: (23, 40) - species 5 - id 162454
 Average adjusted fitness: 0.406
 Mean genetic distance 2.611, standard deviation 0.741
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	224	122	248.5	0.378	8
6	54	128	230.5	0.434	3

Total extinctions: 0
 Generation time: 15.848 sec (15.805 average)

***** Running generation 707 *****

Population's average fitness: 24.04681 stdev: 127.67040
 Best fitness: 254.60149 - size: (24, 41) - species 5 - id 162954
 Average adjusted fitness: 0.424
 Mean genetic distance 2.599, standard deviation 0.779
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	225	117	254.6	0.382	9
6	55	133	248.6	0.466	4

Total extinctions: 0
 Generation time: 15.712 sec (15.802 average)

***** Running generation 708 *****

Population's average fitness: 33.34739 stdev: 127.43923
 Best fitness: 270.20154 - size: (20, 31) - species 6 - id 162986

Average adjusted fitness: 0.423
 Mean genetic distance 2.656, standard deviation 0.748
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	226	120	251.9	0.418	10
6	56	130	270.2	0.429	0

Total extinctions: 0
 Generation time: 15.690 sec (15.836 average)

***** Running generation 709 *****

Population's average fitness: 26.32744 stdev: 129.34457
 Best fitness: 248.93676 - size: (19, 33) - species 6 - id 163333
 Average adjusted fitness: 0.436
 Mean genetic distance 2.614, standard deviation 0.775
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	227	121	245.4	0.429	11
6	57	129	248.9	0.444	1

Total extinctions: 0
 Generation time: 15.398 sec (15.845 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-709

***** Running generation 710 *****

Population's average fitness: 18.90131 stdev: 127.13788
 Best fitness: 250.84237 - size: (25, 39) - species 5 - id 163485
 Average adjusted fitness: 0.409
 Mean genetic distance 2.584, standard deviation 0.740
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	228	129	250.8	0.446	12
6	58	121	230.6	0.371	2

Total extinctions: 0
 Generation time: 15.193 sec (15.853 average)

***** Running generation 711 *****

Population's average fitness: 7.83094 stdev: 124.28823
 Best fitness: 251.46519 - size: (22, 36) - species 6 - id 163642
 Average adjusted fitness: 0.385
 Mean genetic distance 2.723, standard deviation 0.690
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	229	126	230.5	0.379	13
6	59	124	251.5	0.390	3

Total extinctions: 0
 Generation time: 14.244 sec (15.580 average)

***** Running generation 712 *****

Population's average fitness: 19.41595 stdev: 128.34811
 Best fitness: 247.55168 - size: (19, 34) - species 6 - id 163600
 Average adjusted fitness: 0.393
 Mean genetic distance 2.719, standard deviation 0.723

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	230	123	245.4	0.378	14
6	60	127	247.6	0.408	4

Total extinctions: 0

Generation time: 14.866 sec (15.427 average)

***** Running generation 713 *****

Population's average fitness: 27.06437 stdev: 131.17544

Best fitness: 246.72973 - size: (22, 37) - species 6 - id 164339

Average adjusted fitness: 0.497

Mean genetic distance 2.650, standard deviation 0.748

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	231	125	241.4	0.507	15
6	61	125	246.7	0.486	5

Total extinctions: 0

Generation time: 15.259 sec (15.415 average)

***** Running generation 714 *****

Population's average fitness: 15.69707 stdev: 128.51876

Best fitness: 243.87070 - size: (25, 38) - species 5 - id 164373

Average adjusted fitness: 0.413

Mean genetic distance 2.693, standard deviation 0.714

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	232	124	243.9	0.408	16
6	62	126	241.1	0.418	6

Total extinctions: 0

Generation time: 14.604 sec (15.202 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-714

***** Running generation 715 *****

Population's average fitness: 17.55917 stdev: 127.51112

Best fitness: 249.83976 - size: (27, 48) - species 5 - id 164172

Average adjusted fitness: 0.415

Mean genetic distance 2.724, standard deviation 0.718

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	233	119	249.8	0.381	17
6	63	131	238.6	0.448	7

Total extinctions: 0

Generation time: 15.613 sec (15.243 average)

***** Running generation 716 *****

Population's average fitness: 18.29753 stdev: 132.46941

Best fitness: 249.93275 - size: (18, 28) - species 6 - id 164854

Average adjusted fitness: 0.439

Mean genetic distance 2.733, standard deviation 0.723

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

```

=====
5  234  123  243.1  0.450  18
6   64  127  249.9  0.429   8
Total extinctions: 0
Generation time: 14.556 sec (15.113 average)

```

***** Running generation 717 *****

```

Population's average fitness: 12.30935 stdev: 128.77355
Best fitness: 250.97334 - size: (21, 33) - species 6 - id 165235
Average adjusted fitness: 0.418
Mean genetic distance 2.711, standard deviation 0.657
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
5  235  117  238.6  0.370  19
6   65  133  251.0  0.466   9
Total extinctions: 0
Generation time: 14.802 sec (15.022 average)

```

***** Running generation 718 *****

```

Population's average fitness: 19.90056 stdev: 125.47678
Best fitness: 252.86834 - size: (27, 48) - species 5 - id 164172
Average adjusted fitness: 0.405
Mean genetic distance 2.726, standard deviation 0.730
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
5  236  116  252.9  0.370  20
6   66  134  235.9  0.440  10
Total extinctions: 0
Generation time: 15.299 sec (14.983 average)

```

***** Running generation 719 *****

```

Population's average fitness: 22.75343 stdev: 125.67499
Best fitness: 247.99746 - size: (24, 43) - species 5 - id 165283
Average adjusted fitness: 0.426
Mean genetic distance 2.699, standard deviation 0.743
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
5  237  115  248.0  0.388  21
6   67  135  240.2  0.463  11
Total extinctions: 0
Generation time: 15.377 sec (14.981 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-719

```

***** Running generation 720 *****

```

Population's average fitness: 27.02834 stdev: 127.70571
Best fitness: 259.60733 - size: (22, 32) - species 6 - id 165768
Average adjusted fitness: 0.404
Mean genetic distance 2.723, standard deviation 0.725
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
5  238  117  244.3  0.386  22

```

6 68 133 259.6 0.421 12
 Total extinctions: 0
 Generation time: 15.781 sec (15.040 average)

***** Running generation 721 *****

Population's average fitness: 19.78666 stdev: 124.49254
 Best fitness: 236.98583 - size: (26, 45) - species 5 - id 165870
 Average adjusted fitness: 0.472
 Mean genetic distance 2.645, standard deviation 0.738
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	239	121	237.0	0.469	23
6	69	129	227.1	0.475	13

Total extinctions: 0
 Generation time: 15.478 sec (15.163 average)

***** Running generation 722 *****

Population's average fitness: 28.26559 stdev: 129.80289
 Best fitness: 263.48019 - size: (24, 43) - species 5 - id 165283
 Average adjusted fitness: 0.398
 Mean genetic distance 2.721, standard deviation 0.695
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	240	120	263.5	0.383	24
6	70	130	244.7	0.414	14

Total extinctions: 0
 Generation time: 16.083 sec (15.285 average)

***** Running generation 723 *****

Population's average fitness: 28.39607 stdev: 126.79513
 Best fitness: 253.33411 - size: (24, 41) - species 5 - id 166379
 Average adjusted fitness: 0.441
 Mean genetic distance 2.681, standard deviation 0.712
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	241	122	253.3	0.439	25
6	71	128	243.9	0.444	15

Total extinctions: 0
 Generation time: 15.826 sec (15.342 average)

***** Running generation 724 *****

Population's average fitness: 30.99483 stdev: 126.23945
 Best fitness: 255.45776 - size: (24, 44) - species 5 - id 166345
 Average adjusted fitness: 0.441
 Mean genetic distance 2.581, standard deviation 0.767
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	242	126	255.5	0.458	26
6	72	124	244.0	0.425	16

Total extinctions: 0
 Generation time: 16.015 sec (15.483 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti

walker_Run1\neat-checkpoint-724

***** Running generation 725 *****

Population's average fitness: 35.70466 stdev: 129.88213
 Best fitness: 264.33408 - size: (23, 38) - species 6 - id 166974
 Average adjusted fitness: 0.438
 Mean genetic distance 2.455, standard deviation 0.917
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	243	123	250.0	0.418	27
6	73	127	264.3	0.458	17

Total extinctions: 0
 Generation time: 15.668 sec (15.488 average)

***** Running generation 726 *****

Population's average fitness: 30.19424 stdev: 129.14240
 Best fitness: 246.49756 - size: (26, 51) - species 5 - id 167130
 Average adjusted fitness: 0.459
 Mean genetic distance 2.509, standard deviation 0.876
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	244	116	246.5	0.403	28
6	74	134	245.9	0.515	18

Total extinctions: 0
 Generation time: 15.909 sec (15.624 average)

***** Running generation 727 *****

Population's average fitness: 24.82639 stdev: 126.02530
 Best fitness: 264.10673 - size: (26, 49) - species 5 - id 167498
 Average adjusted fitness: 0.421
 Mean genetic distance 2.457, standard deviation 0.890
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	245	121	264.1	0.422	29
6	75	129	236.5	0.421	19

Total extinctions: 0
 Generation time: 15.981 sec (15.742 average)

***** Running generation 728 *****

Population's average fitness: 26.03601 stdev: 128.56263
 Best fitness: 250.87538 - size: (25, 46) - species 5 - id 167149
 Average adjusted fitness: 0.418
 Mean genetic distance 2.413, standard deviation 0.860
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	246	116	250.9	0.374	30
6	76	134	244.2	0.461	20

Total extinctions: 0
 Generation time: 15.582 sec (15.770 average)

***** Running generation 729 *****

Population's average fitness: 37.45023 stdev: 131.13991
 Best fitness: 257.51080 - size: (23, 42) - species 6 - id 167912
 Average adjusted fitness: 0.435
 Mean genetic distance 2.474, standard deviation 0.828
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	247	117	254.8	0.406	31
6	77	133	257.5	0.464	21

Total extinctions: 0
 Generation time: 16.490 sec (15.881 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-729

***** Running generation 730 *****

Population's average fitness: 24.22459 stdev: 133.04032
 Best fitness: 258.79921 - size: (22, 37) - species 6 - id 167932
 Average adjusted fitness: 0.440
 Mean genetic distance 2.458, standard deviation 0.811
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	248	119	254.9	0.426	32
6	78	131	258.8	0.453	22

Total extinctions: 0
 Generation time: 16.019 sec (15.905 average)

***** Running generation 731 *****

Population's average fitness: 42.77191 stdev: 125.89663
 Best fitness: 255.22418 - size: (25, 50) - species 5 - id 168042
 Average adjusted fitness: 0.507
 Mean genetic distance 2.510, standard deviation 0.780
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	249	120	255.2	0.494	33
6	79	130	250.0	0.519	23

Total extinctions: 0
 Generation time: 17.213 sec (16.079 average)

***** Running generation 732 *****

Population's average fitness: 36.34925 stdev: 129.12551
 Best fitness: 277.90220 - size: (23, 42) - species 6 - id 167912
 Average adjusted fitness: 0.422
 Mean genetic distance 2.486, standard deviation 0.864
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	250	126	250.7	0.445	34
6	80	124	277.9	0.399	0

Total extinctions: 0
 Generation time: 16.817 sec (16.152 average)

***** Running generation 733 *****

Population's average fitness: 31.55890 stdev: 131.43789
 Best fitness: 255.24974 - size: (23, 41) - species 6 - id 168241

Average adjusted fitness: 0.440
 Mean genetic distance 2.488, standard deviation 0.876
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	251	129	255.2	0.465	35
6	81	121	255.2	0.414	1

Total extinctions: 0
 Generation time: 16.383 sec (16.208 average)

***** Running generation 734 *****

Population's average fitness: 41.67644 stdev: 130.70470
 Best fitness: 247.88014 - size: (22, 38) - species 6 - id 169098
 Average adjusted fitness: 0.472
 Mean genetic distance 2.461, standard deviation 0.902
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	252	124	243.3	0.453	36
6	82	126	247.9	0.491	2

Total extinctions: 0
 Generation time: 16.523 sec (16.258 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-734

***** Running generation 735 *****

Population's average fitness: 21.20518 stdev: 127.85246
 Best fitness: 252.01159 - size: (27, 46) - species 5 - id 169264
 Average adjusted fitness: 0.405
 Mean genetic distance 2.483, standard deviation 0.883
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	253	123	252.0	0.393	37
6	83	127	236.2	0.417	3

Total extinctions: 0
 Generation time: 15.712 sec (16.263 average)

***** Running generation 736 *****

Population's average fitness: 28.03043 stdev: 130.55453
 Best fitness: 254.34401 - size: (23, 37) - species 6 - id 169344
 Average adjusted fitness: 0.439
 Mean genetic distance 2.486, standard deviation 0.872
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	254	124	247.5	0.443	38
6	84	126	254.3	0.436	4

Total extinctions: 0
 Generation time: 15.841 sec (16.256 average)

***** Running generation 737 *****

Population's average fitness: 40.09016 stdev: 128.05285
 Best fitness: 255.07261 - size: (25, 46) - species 6 - id 169806
 Average adjusted fitness: 0.471
 Mean genetic distance 2.526, standard deviation 0.837

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	255	128	250.8	0.499	39
6	85	122	255.1	0.442	5

Total extinctions: 0

Generation time: 16.927 sec (16.351 average)

***** Running generation 738 *****

Population's average fitness: 30.30319 stdev: 130.63814

Best fitness: 256.98769 - size: (27, 47) - species 6 - id 170086

Average adjusted fitness: 0.438

Mean genetic distance 2.539, standard deviation 0.799

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	256	129	253.1	0.458	40
6	86	121	257.0	0.418	6

Total extinctions: 0

Generation time: 16.250 sec (16.417 average)

***** Running generation 739 *****

Population's average fitness: 22.68305 stdev: 126.84278

Best fitness: 267.17849 - size: (26, 50) - species 5 - id 169705

Average adjusted fitness: 0.387

Mean genetic distance 2.551, standard deviation 0.827

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	257	132	267.2	0.420	41
6	87	118	236.9	0.353	7

Total extinctions: 0

Generation time: 15.612 sec (16.330 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-739

***** Running generation 740 *****

Population's average fitness: 32.27125 stdev: 124.70928

Best fitness: 252.42327 - size: (25, 47) - species 5 - id 170556

Average adjusted fitness: 0.433

Mean genetic distance 2.654, standard deviation 0.698

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	258	134	252.4	0.468	42
6	88	116	234.5	0.398	8

Total extinctions: 0

Generation time: 17.070 sec (16.435 average)

***** Running generation 741 *****

Population's average fitness: 28.89508 stdev: 126.68791

Best fitness: 278.56776 - size: (25, 50) - species 5 - id 170754

Average adjusted fitness: 0.402

Mean genetic distance 2.623, standard deviation 0.727

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

```

=====
====  ===  =====  =====  =====
      5  259   131    278.6    0.410    43
      6   89   119    242.1    0.394     9
Total extinctions: 0
Generation time: 16.496 sec (16.363 average)

```

***** Running generation 742 *****

```

Population's average fitness: 39.44323 stdev: 123.90226
Best fitness: 262.80688 - size: (24, 42) - species 5 - id 170994
Average adjusted fitness: 0.432
Mean genetic distance 2.596, standard deviation 0.782
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      5  260   128    262.8    0.434    44
      6   90   122    231.3    0.430    10
Total extinctions: 0
Generation time: 17.317 sec (16.413 average)

```

***** Running generation 743 *****

```

Population's average fitness: 38.12290 stdev: 128.67013
Best fitness: 281.01622 - size: (22, 40) - species 5 - id 171166
Average adjusted fitness: 0.420
Mean genetic distance 2.588, standard deviation 0.854
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      5  261   129    281.0    0.434    45
      6   91   121    225.8    0.407    11
Total extinctions: 0
Generation time: 16.730 sec (16.448 average)

```

***** Running generation 744 *****

```

Population's average fitness: 35.04834 stdev: 127.03329
Best fitness: 264.35613 - size: (26, 47) - species 5 - id 171234
Average adjusted fitness: 0.444
Mean genetic distance 2.579, standard deviation 0.867
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      5  262   123    264.4    0.418    46
      6   92   127    230.7    0.470    12
Total extinctions: 0
Generation time: 16.725 sec (16.468 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-744

```

***** Running generation 745 *****

```

Population's average fitness: 22.27487 stdev: 127.65247
Best fitness: 242.24302 - size: (24, 40) - species 5 - id 171699
Average adjusted fitness: 0.443
Mean genetic distance 2.611, standard deviation 0.870
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
      5  263   124    242.2    0.440    47

```

6 93 126 233.2 0.447 13
 Total extinctions: 0
 Generation time: 16.447 sec (16.542 average)

***** Running generation 746 *****

Population's average fitness: 23.37766 stdev: 127.24831
 Best fitness: 260.07831 - size: (26, 46) - species 5 - id 171397
 Average adjusted fitness: 0.431
 Mean genetic distance 2.597, standard deviation 0.844
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	264	122	260.1	0.411	48
6	94	128	243.2	0.450	14

Total extinctions: 0
 Generation time: 16.348 sec (16.592 average)

***** Running generation 747 *****

Population's average fitness: 21.18892 stdev: 128.24587
 Best fitness: 253.12146 - size: (24, 40) - species 5 - id 172137
 Average adjusted fitness: 0.399
 Mean genetic distance 2.608, standard deviation 0.823
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	265	121	253.1	0.387	49
6	95	129	240.1	0.412	15

Total extinctions: 0
 Generation time: 15.336 sec (16.433 average)

***** Running generation 748 *****

Population's average fitness: 20.13361 stdev: 126.76404
 Best fitness: 251.90066 - size: (24, 46) - species 5 - id 171623
 Average adjusted fitness: 0.413
 Mean genetic distance 2.560, standard deviation 0.863
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	266	122	251.9	0.404	50
6	96	128	251.0	0.422	16

Total extinctions: 0
 Generation time: 15.268 sec (16.335 average)

***** Running generation 749 *****

Population's average fitness: 18.97923 stdev: 126.70713
 Best fitness: 240.28291 - size: (25, 44) - species 5 - id 172604
 Average adjusted fitness: 0.456
 Mean genetic distance 2.616, standard deviation 0.816
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	267	124	240.3	0.460	51
6	97	126	223.9	0.452	17

Total extinctions: 0
 Generation time: 15.519 sec (16.326 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti

walker_Run1\neat-checkpoint-749

***** Running generation 750 *****

Population's average fitness: 28.02173 stdev: 130.15913
 Best fitness: 258.20323 - size: (25, 47) - species 5 - id 172774
 Average adjusted fitness: 0.442
 Mean genetic distance 2.693, standard deviation 0.818
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	268	126	258.2	0.456	52
6	98	124	228.9	0.429	18

Total extinctions: 0
 Generation time: 15.956 sec (16.214 average)

***** Running generation 751 *****

Population's average fitness: 19.51946 stdev: 126.06315
 Best fitness: 258.32479 - size: (23, 43) - species 5 - id 173066
 Average adjusted fitness: 0.405
 Mean genetic distance 2.689, standard deviation 0.820
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	269	129	258.3	0.426	53
6	99	121	222.2	0.384	19

Total extinctions: 0
 Generation time: 15.629 sec (16.128 average)

***** Running generation 752 *****

Population's average fitness: 28.07307 stdev: 127.44064
 Best fitness: 274.02777 - size: (23, 33) - species 5 - id 173088
 Average adjusted fitness: 0.410
 Mean genetic distance 2.697, standard deviation 0.802
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	270	130	274.0	0.424	54
6	100	120	224.4	0.397	20

Total extinctions: 0
 Generation time: 15.866 sec (15.982 average)

***** Running generation 753 *****

Population's average fitness: 35.13265 stdev: 128.79209
 Best fitness: 278.21703 - size: (23, 39) - species 5 - id 173065
 Average adjusted fitness: 0.416
 Mean genetic distance 2.706, standard deviation 0.803
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	271	128	278.2	0.417	55
6	101	122	215.0	0.415	21

Total extinctions: 0
 Generation time: 16.077 sec (15.917 average)

***** Running generation 754 *****

Population's average fitness: 14.79512 stdev: 128.06707
 Best fitness: 247.41108 - size: (24, 43) - species 5 - id 173675
 Average adjusted fitness: 0.460
 Mean genetic distance 2.732, standard deviation 0.835
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	272	129	247.4	0.480	56
6	102	121	231.0	0.441	22

Total extinctions: 0
 Generation time: 14.976 sec (15.742 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-754

***** Running generation 755 *****

Population's average fitness: 33.31879 stdev: 129.29091
 Best fitness: 247.42455 - size: (25, 44) - species 5 - id 173906
 Average adjusted fitness: 0.479
 Mean genetic distance 2.697, standard deviation 0.848
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	273	133	247.4	0.523	57
6	103	117	233.5	0.436	23

Total extinctions: 0
 Generation time: 16.385 sec (15.736 average)

***** Running generation 756 *****

Population's average fitness: 18.80527 stdev: 125.96064
 Best fitness: 258.85081 - size: (25, 44) - species 5 - id 173523
 Average adjusted fitness: 0.383
 Mean genetic distance 2.717, standard deviation 0.877
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	274	125	258.9	0.361	58
6	104	125	232.7	0.405	24

Total extinctions: 0
 Generation time: 15.847 sec (15.686 average)

***** Running generation 757 *****

Population's average fitness: 37.13430 stdev: 132.12696
 Best fitness: 239.99368 - size: (25, 44) - species 5 - id 174450
 Average adjusted fitness: 0.458
 Mean genetic distance 2.680, standard deviation 0.935
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	275	124	240.0	0.455	59
6	105	126	239.4	0.461	25

Total extinctions: 0
 Generation time: 16.573 sec (15.810 average)

***** Running generation 758 *****

Population's average fitness: 23.64521 stdev: 130.24936
 Best fitness: 247.63737 - size: (23, 37) - species 6 - id 174498

Average adjusted fitness: 0.429
 Mean genetic distance 2.588, standard deviation 0.891
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	276	125	243.4	0.428	60
6	106	125	247.6	0.429	26

 Total extinctions: 0
 Generation time: 15.207 sec (15.803 average)

***** Running generation 759 *****

Population's average fitness: 22.53335 stdev: 126.85559
 Best fitness: 268.34501 - size: (25, 44) - species 5 - id 174714
 Average adjusted fitness: 0.398
 Mean genetic distance 2.474, standard deviation 0.937
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	277	121	268.3	0.372	61
6	107	129	234.5	0.424	27

 Total extinctions: 0
 Generation time: 15.704 sec (15.822 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-759

***** Running generation 760 *****

Population's average fitness: 20.64059 stdev: 129.58102
 Best fitness: 249.02739 - size: (25, 46) - species 5 - id 174709
 Average adjusted fitness: 0.432
 Mean genetic distance 2.503, standard deviation 0.899
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	278	116	249.0	0.387	62
6	108	134	233.0	0.478	28

 Total extinctions: 0
 Generation time: 14.747 sec (15.701 average)

***** Running generation 761 *****

Population's average fitness: 37.40968 stdev: 129.17355
 Best fitness: 260.94724 - size: (25, 46) - species 5 - id 174709
 Average adjusted fitness: 0.424
 Mean genetic distance 2.533, standard deviation 0.896
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	279	118	260.9	0.408	63
6	109	132	246.2	0.439	29

 Total extinctions: 0
 Generation time: 16.379 sec (15.776 average)

***** Running generation 762 *****

Population's average fitness: 25.14337 stdev: 126.13475
 Best fitness: 263.99523 - size: (26, 46) - species 5 - id 174738
 Average adjusted fitness: 0.418
 Mean genetic distance 2.514, standard deviation 0.867

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	280	117	264.0	0.393	64
6	110	133	231.5	0.444	30

Total extinctions: 0

Generation time: 16.462 sec (15.836 average)

***** Running generation 763 *****

Population's average fitness: 15.16968 stdev: 127.85335

Best fitness: 262.71845 - size: (23, 43) - species 6 - id 175634

Average adjusted fitness: 0.380

Mean genetic distance 2.570, standard deviation 0.871

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	281	115	227.2	0.346	65
6	111	135	262.7	0.414	31

Total extinctions: 0

Generation time: 15.344 sec (15.762 average)

***** Running generation 764 *****

Population's average fitness: 20.34165 stdev: 126.58654

Best fitness: 249.61110 - size: (26, 45) - species 5 - id 175902

Average adjusted fitness: 0.437

Mean genetic distance 2.559, standard deviation 0.881

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	282	118	249.6	0.419	66
6	112	132	236.9	0.454	32

Total extinctions: 0

Generation time: 15.383 sec (15.803 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-764

***** Running generation 765 *****

Population's average fitness: 25.15950 stdev: 131.49766

Best fitness: 247.44458 - size: (24, 41) - species 5 - id 176276

Average adjusted fitness: 0.508

Mean genetic distance 2.617, standard deviation 0.871

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	283	122	247.4	0.509	67
6	113	128	241.8	0.506	33

Total extinctions: 0

Generation time: 15.278 sec (15.692 average)

***** Running generation 766 *****

Population's average fitness: 27.26903 stdev: 125.50382

Best fitness: 245.36088 - size: (21, 41) - species 6 - id 176404

Average adjusted fitness: 0.443

Mean genetic distance 2.694, standard deviation 0.827

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

```

=====
5  284  121  243.7  0.430  68
6  114  129  245.4  0.455  34
Total extinctions: 0
Generation time: 16.294 sec (15.737 average)

```

***** Running generation 767 *****

```

Population's average fitness: 23.38686 stdev: 129.75255
Best fitness: 275.86954 - size: (23, 44) - species 5 - id 176564
Average adjusted fitness: 0.390
Mean genetic distance 2.652, standard deviation 0.860
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
5  285  122  275.9  0.381  69
6  115  128  251.0  0.398  35
Total extinctions: 0
Generation time: 15.809 sec (15.661 average)

```

***** Running generation 768 *****

```

Population's average fitness: 17.03920 stdev: 128.35565
Best fitness: 247.90204 - size: (23, 44) - species 5 - id 176564
Average adjusted fitness: 0.437
Mean genetic distance 2.584, standard deviation 0.877
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
5  286  125  247.9  0.445  70
6  116  125  244.9  0.429  36
Total extinctions: 0
Generation time: 15.424 sec (15.682 average)

```

***** Running generation 769 *****

```

Population's average fitness: 28.53167 stdev: 131.67675
Best fitness: 249.96658 - size: (28, 47) - species 5 - id 176950
Average adjusted fitness: 0.445
Mean genetic distance 2.572, standard deviation 0.795
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
5  287  121  250.0  0.420  71
6  117  129  246.8  0.470  37
Total extinctions: 0
Generation time: 15.553 sec (15.667 average)
Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-769

```

***** Running generation 770 *****

```

Population's average fitness: 13.92044 stdev: 125.92948
Best fitness: 258.07775 - size: (28, 47) - species 5 - id 176950
Average adjusted fitness: 0.402
Mean genetic distance 2.571, standard deviation 0.769
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
5  288  122  258.1  0.392  72

```

6 118 128 231.8 0.412 38
 Total extinctions: 0
 Generation time: 15.360 sec (15.729 average)

***** Running generation 771 *****

Population's average fitness: 3.17668 stdev: 124.54874
 Best fitness: 242.80276 - size: (28, 47) - species 5 - id 176950
 Average adjusted fitness: 0.371
 Mean genetic distance 2.631, standard deviation 0.718
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	289	123	242.8	0.363	73
6	119	127	232.3	0.379	39

Total extinctions: 0
 Generation time: 14.080 sec (15.499 average)

***** Running generation 772 *****

Population's average fitness: 32.11761 stdev: 128.57824
 Best fitness: 270.71074 - size: (22, 34) - species 6 - id 177531
 Average adjusted fitness: 0.450
 Mean genetic distance 2.573, standard deviation 0.765
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	290	126	267.0	0.464	74
6	120	124	270.7	0.437	40

Total extinctions: 0
 Generation time: 15.963 sec (15.449 average)

***** Running generation 773 *****

Population's average fitness: 19.17795 stdev: 126.10117
 Best fitness: 260.21746 - size: (23, 36) - species 6 - id 178116
 Average adjusted fitness: 0.405
 Mean genetic distance 2.649, standard deviation 0.707
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	291	120	248.5	0.367	75
6	121	130	260.2	0.444	41

Total extinctions: 0
 Generation time: 15.518 sec (15.466 average)

***** Running generation 774 *****

Population's average fitness: 23.23617 stdev: 124.59736
 Best fitness: 249.11723 - size: (24, 40) - species 6 - id 178387
 Average adjusted fitness: 0.418
 Mean genetic distance 2.699, standard deviation 0.682
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	292	121	242.3	0.405	76
6	122	129	249.1	0.431	42

Total extinctions: 0
 Generation time: 16.295 sec (15.557 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti

walker_Run1\neat-checkpoint-774

***** Running generation 775 *****

Population's average fitness: 25.96131 stdev: 126.32742
 Best fitness: 269.26006 - size: (29, 50) - species 5 - id 178432
 Average adjusted fitness: 0.397
 Mean genetic distance 2.735, standard deviation 0.685
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	293	123	269.3	0.399	77
6	123	127	236.1	0.395	43

Total extinctions: 0
 Generation time: 15.929 sec (15.623 average)

***** Running generation 776 *****

Population's average fitness: 28.44670 stdev: 132.89455
 Best fitness: 256.31752 - size: (27, 47) - species 5 - id 178809
 Average adjusted fitness: 0.436
 Mean genetic distance 2.739, standard deviation 0.719
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	294	124	256.3	0.436	78
6	124	126	253.7	0.436	44

Total extinctions: 0
 Generation time: 15.376 sec (15.531 average)

***** Running generation 777 *****

Population's average fitness: 37.87077 stdev: 126.61520
 Best fitness: 257.04001 - size: (27, 41) - species 5 - id 178747
 Average adjusted fitness: 0.449
 Mean genetic distance 2.716, standard deviation 0.715
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	295	125	257.0	0.446	79
6	125	125	238.0	0.452	45

Total extinctions: 0
 Generation time: 16.324 sec (15.582 average)

***** Running generation 778 *****

Population's average fitness: 28.93020 stdev: 128.18745
 Best fitness: 260.57878 - size: (24, 40) - species 6 - id 178520
 Average adjusted fitness: 0.421
 Mean genetic distance 2.693, standard deviation 0.729
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	296	121	241.3	0.394	80
6	126	129	260.6	0.447	46

Total extinctions: 0
 Generation time: 16.398 sec (15.680 average)

***** Running generation 779 *****

Population's average fitness: 18.91738 stdev: 123.16951
 Best fitness: 245.01968 - size: (23, 41) - species 6 - id 178850
 Average adjusted fitness: 0.423
 Mean genetic distance 2.727, standard deviation 0.729
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	297	120	244.9	0.408	81
6	127	130	245.0	0.438	47

Total extinctions: 0
 Generation time: 15.469 sec (15.671 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-779

***** Running generation 780 *****

Population's average fitness: 26.32666 stdev: 126.21364
 Best fitness: 248.16450 - size: (29, 49) - species 5 - id 179639
 Average adjusted fitness: 0.438
 Mean genetic distance 2.753, standard deviation 0.683
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	298	121	248.2	0.430	82
6	128	129	230.5	0.445	48

Total extinctions: 0
 Generation time: 16.140 sec (15.749 average)

***** Running generation 781 *****

Population's average fitness: 27.54976 stdev: 125.81290
 Best fitness: 258.17916 - size: (28, 48) - species 5 - id 179925
 Average adjusted fitness: 0.441
 Mean genetic distance 2.753, standard deviation 0.653
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	299	122	258.2	0.428	83
6	129	128	247.8	0.454	49

Total extinctions: 0
 Generation time: 19.233 sec (16.264 average)

***** Running generation 782 *****

Population's average fitness: 25.36775 stdev: 124.38820
 Best fitness: 260.51993 - size: (29, 49) - species 5 - id 180176
 Average adjusted fitness: 0.413
 Mean genetic distance 2.650, standard deviation 0.713
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	300	128	260.5	0.440	84
6	130	122	258.0	0.386	50

Total extinctions: 0
 Generation time: 16.618 sec (16.330 average)

***** Running generation 783 *****

Population's average fitness: 29.15229 stdev: 125.42296
 Best fitness: 261.85917 - size: (28, 46) - species 5 - id 180217

Average adjusted fitness: 0.436
 Mean genetic distance 2.592, standard deviation 0.776
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	301	127	261.9	0.437	85
6	131	123	237.6	0.434	51

 Total extinctions: 0
 Generation time: 17.745 sec (16.553 average)

***** Running generation 784 *****

Population's average fitness: 17.81606 stdev: 124.73731
 Best fitness: 266.22420 - size: (23, 40) - species 6 - id 180322
 Average adjusted fitness: 0.421
 Mean genetic distance 2.541, standard deviation 0.808
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	302	129	239.2	0.442	86
6	132	121	266.2	0.399	52

 Total extinctions: 0
 Generation time: 17.246 sec (16.648 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-784

***** Running generation 785 *****

Population's average fitness: 25.41099 stdev: 126.41521
 Best fitness: 237.66711 - size: (23, 40) - species 6 - id 180818
 Average adjusted fitness: 0.424
 Mean genetic distance 2.651, standard deviation 0.760
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	303	126	237.3	0.417	87
6	133	124	237.7	0.431	53

 Total extinctions: 0
 Generation time: 16.433 sec (16.698 average)

***** Running generation 786 *****

Population's average fitness: 21.83067 stdev: 124.44709
 Best fitness: 250.14790 - size: (28, 51) - species 5 - id 180984
 Average adjusted fitness: 0.401
 Mean genetic distance 2.678, standard deviation 0.754
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	304	122	250.1	0.381	88
6	134	128	227.7	0.422	54

 Total extinctions: 0
 Generation time: 17.164 sec (16.877 average)

***** Running generation 787 *****

Population's average fitness: 22.77231 stdev: 125.58254
 Best fitness: 279.15859 - size: (28, 49) - species 5 - id 181347
 Average adjusted fitness: 0.420
 Mean genetic distance 2.763, standard deviation 0.715

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
5	305	120	279.2	0.395	89
6	135	126	243.7	0.445	55
7	0	4	--	--	0

Total extinctions: 0

Generation time: 16.601 sec (16.905 average)

***** Running generation 788 *****

Population's average fitness: 24.58810 stdev: 123.49964

Best fitness: 239.14139 - size: (29, 53) - species 5 - id 181551

Average adjusted fitness: 0.399

Mean genetic distance 2.760, standard deviation 0.735

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
5	306	107	239.1	0.447	90
6	136	94	225.5	0.473	56
7	1	49	182.9	0.277	0

Total extinctions: 0

Generation time: 17.479 sec (17.013 average)

***** Running generation 789 *****

Population's average fitness: 18.61968 stdev: 126.18775

Best fitness: 247.25376 - size: (29, 52) - species 5 - id 181513

Average adjusted fitness: 0.371

Mean genetic distance 2.759, standard deviation 0.712

Population of 251 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
5	307	102	247.3	0.429	91
6	137	55	244.7	0.452	57
7	2	94	227.5	0.233	0

Total extinctions: 0

Generation time: 16.137 sec (17.080 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti walker_Run1\neat-checkpoint-789

***** Running generation 790 *****

Population's average fitness: 38.69041 stdev: 129.96161

Best fitness: 267.08451 - size: (31, 54) - species 5 - id 182053

Average adjusted fitness: 0.473

Mean genetic distance 2.733, standard deviation 0.688

Population of 251 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
5	308	97	267.1	0.524	92
6	138	78	246.3	0.466	58
7	3	76	232.5	0.430	0

Total extinctions: 0

Generation time: 17.227 sec (17.188 average)

***** Running generation 791 *****

Population's average fitness: 26.12260 stdev: 131.08088

Best fitness: 250.97421 - size: (25, 43) - species 7 - id 182107

Species 6 with 78 members is stagnated: removing it
 Average adjusted fitness: 0.415
 Mean genetic distance 2.640, standard deviation 0.794
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	309	127	248.0	0.393	93
7	4	123	251.0	0.438	0

Total extinctions: 0
 Generation time: 16.501 sec (16.915 average)

***** Running generation 792 *****

Population's average fitness: 23.16624 stdev: 125.88638
 Best fitness: 260.93910 - size: (31, 54) - species 5 - id 182053
 Average adjusted fitness: 0.412
 Mean genetic distance 2.691, standard deviation 0.785
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	310	128	260.9	0.422	94
7	5	122	237.9	0.401	1

Total extinctions: 0
 Generation time: 16.073 sec (16.860 average)

***** Running generation 793 *****

Population's average fitness: 18.66350 stdev: 124.65839
 Best fitness: 287.83483 - size: (31, 53) - species 5 - id 182650
 Average adjusted fitness: 0.369
 Mean genetic distance 2.668, standard deviation 0.752
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	311	125	287.8	0.362	95
7	6	125	248.6	0.375	2

Total extinctions: 0
 Generation time: 16.310 sec (16.717 average)

***** Running generation 794 *****

Population's average fitness: 8.74035 stdev: 128.26422
 Best fitness: 262.78771 - size: (26, 46) - species 5 - id 182962
 Average adjusted fitness: 0.401
 Mean genetic distance 2.718, standard deviation 0.757
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	312	126	262.8	0.409	96
7	7	124	247.4	0.394	3

Total extinctions: 0
 Generation time: 15.417 sec (16.534 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-794

***** Running generation 795 *****

Population's average fitness: 23.16139 stdev: 124.93427
 Best fitness: 240.11490 - size: (26, 46) - species 5 - id 182962

Average adjusted fitness: 0.472
 Mean genetic distance 2.815, standard deviation 0.769
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	313	125	240.1	0.472	97
7	8	125	224.4	0.473	4

 Total extinctions: 0
 Generation time: 16.678 sec (16.559 average)

***** Running generation 796 *****

Population's average fitness: 11.52159 stdev: 119.29400
 Best fitness: 236.50201 - size: (24, 41) - species 7 - id 183218
 Average adjusted fitness: 0.459
 Mean genetic distance 2.753, standard deviation 0.797
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	314	127	234.6	0.474	98
7	9	123	236.5	0.443	5

 Total extinctions: 0
 Generation time: 15.856 sec (16.428 average)

***** Running generation 797 *****

Population's average fitness: 15.50673 stdev: 127.75066
 Best fitness: 250.38855 - size: (29, 51) - species 5 - id 183471
 Average adjusted fitness: 0.468
 Mean genetic distance 2.651, standard deviation 0.824
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	315	126	250.4	0.472	99
7	10	124	228.7	0.464	6

 Total extinctions: 0
 Generation time: 16.546 sec (16.422 average)

***** Running generation 798 *****

Population's average fitness: 12.55695 stdev: 124.57590
 Best fitness: 260.44894 - size: (29, 48) - species 5 - id 183360
 Average adjusted fitness: 0.403
 Mean genetic distance 2.664, standard deviation 0.795
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
5	316	131	260.4	0.441	100
7	11	119	232.4	0.366	7

 Total extinctions: 0
 Generation time: 16.464 sec (16.321 average)

***** Running generation 799 *****

Population's average fitness: 28.19701 stdev: 127.40240
 Best fitness: 259.43261 - size: (31, 58) - species 5 - id 184100
 Average adjusted fitness: 0.408
 Mean genetic distance 2.671, standard deviation 0.774
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

```

=====
====  ===  =====  =====  =====
      5  317   133    259.4    0.443   101
      7   12   117    222.4    0.373    8

```

Total extinctions: 0

Generation time: 16.423 sec (16.349 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-799

***** Running generation 800 *****

Population's average fitness: 15.86725 stdev: 119.81960

Best fitness: 254.67007 - size: (28, 48) - species 5 - id 184292

Average adjusted fitness: 0.380

Mean genetic distance 2.722, standard deviation 0.730

Population of 250 members in 2 species:

```

      ID  age  size  fitness  adj fit  stag
=====
      5  318   135    254.7    0.413   102
      7   13   115    228.4    0.346    9

```

Total extinctions: 0

Generation time: 16.130 sec (16.240 average)

***** Running generation 801 *****

Population's average fitness: 7.52387 stdev: 118.83429

Best fitness: 277.03954 - size: (28, 48) - species 5 - id 184505

Average adjusted fitness: 0.353

Mean genetic distance 2.676, standard deviation 0.756

Population of 250 members in 2 species:

```

      ID  age  size  fitness  adj fit  stag
=====
      5  319   134    277.0    0.374   103
      7   14   116    230.2    0.331   10

```

Total extinctions: 0

Generation time: 15.843 sec (16.174 average)

***** Running generation 802 *****

Population's average fitness: 13.41595 stdev: 127.69469

Best fitness: 268.33505 - size: (24, 43) - species 5 - id 184772

Average adjusted fitness: 0.440

Mean genetic distance 2.666, standard deviation 0.809

Population of 250 members in 2 species:

```

      ID  age  size  fitness  adj fit  stag
=====
      5  320   128    268.3    0.429   104
      7   15   122    217.0    0.450   11

```

Total extinctions: 0

Generation time: 15.420 sec (16.109 average)

***** Running generation 803 *****

Population's average fitness: 26.99929 stdev: 128.06879

Best fitness: 256.04859 - size: (26, 45) - species 5 - id 184712

Average adjusted fitness: 0.407

Mean genetic distance 2.743, standard deviation 0.788

Population of 250 members in 3 species:

```

      ID  age  size  fitness  adj fit  stag
=====
      5  321   130    256.0    0.431   105

```

7	16	89	239.2	0.383	12
8	0	31	--	--	0

Total extinctions: 0

Generation time: 16.408 sec (16.118 average)

***** Running generation 804 *****

Population's average fitness: 24.77616 stdev: 127.51287

Best fitness: 261.32763 - size: (26, 45) - species 5 - id 184712

Average adjusted fitness: 0.405

Mean genetic distance 2.746, standard deviation 0.753

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
5	322	108	261.3	0.416	106
7	17	67	233.7	0.371	13
8	1	75	240.7	0.427	0

Total extinctions: 0

Generation time: 16.564 sec (16.233 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-804

***** Running generation 805 *****

Population's average fitness: 25.76565 stdev: 124.30903

Best fitness: 265.20572 - size: (26, 45) - species 5 - id 184712

Average adjusted fitness: 0.413

Mean genetic distance 2.679, standard deviation 0.695

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
5	323	91	265.2	0.367	107
7	18	79	224.1	0.456	14
8	2	80	229.4	0.417	1

Total extinctions: 0

Generation time: 16.571 sec (16.222 average)

***** Running generation 806 *****

Population's average fitness: 32.91592 stdev: 121.83156

Best fitness: 247.08242 - size: (33, 59) - species 5 - id 185639

Average adjusted fitness: 0.496

Mean genetic distance 2.662, standard deviation 0.685

Population of 251 members in 3 species:

ID	age	size	fitness	adj fit	stag
5	324	88	247.1	0.503	108
7	19	80	244.4	0.474	15
8	3	83	244.3	0.511	0

Total extinctions: 0

Generation time: 17.346 sec (16.371 average)

***** Running generation 807 *****

Population's average fitness: 25.02315 stdev: 123.04370

Best fitness: 259.80852 - size: (34, 57) - species 5 - id 185898

Average adjusted fitness: 0.424

Mean genetic distance 2.684, standard deviation 0.752

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

====	===	====	=====	=====	=====
5	325	90	259.8	0.465	109
7	20	82	234.9	0.432	16
8	4	78	240.4	0.376	1

Total extinctions: 0

Generation time: 16.452 sec (16.362 average)

***** Running generation 808 *****

Population's average fitness: 39.25583 stdev: 122.82361

Best fitness: 247.61215 - size: (32, 55) - species 5 - id 185904

Average adjusted fitness: 0.448

Mean genetic distance 2.640, standard deviation 0.744

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	=====
5	326	87	247.6	0.455	110
7	21	81	231.7	0.426	17
8	5	82	241.6	0.465	2

Total extinctions: 0

Generation time: 17.579 sec (16.473 average)

***** Running generation 809 *****

Population's average fitness: 31.63210 stdev: 126.80216

Best fitness: 259.81112 - size: (34, 55) - species 5 - id 186089

Average adjusted fitness: 0.482

Mean genetic distance 2.675, standard deviation 0.764

Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	=====
5	327	83	259.8	0.454	111
7	22	85	249.9	0.520	18
8	6	81	249.2	0.472	0

Total extinctions: 0

Generation time: 16.745 sec (16.506 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-809

***** Running generation 810 *****

Population's average fitness: 35.01136 stdev: 127.72172

Best fitness: 251.83458 - size: (22, 36) - species 8 - id 186006

Average adjusted fitness: 0.474

Mean genetic distance 2.672, standard deviation 0.753

Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	=====
5	328	81	250.7	0.448	112
7	23	88	245.9	0.521	19
8	7	80	251.8	0.453	0

Total extinctions: 0

Generation time: 16.206 sec (16.513 average)

***** Running generation 811 *****

Population's average fitness: 37.24170 stdev: 126.11069

Best fitness: 277.30443 - size: (23, 40) - species 5 - id 186722

Average adjusted fitness: 0.438

Mean genetic distance 2.709, standard deviation 0.822

Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
5	329	80	277.3	0.423	113
7	24	87	245.9	0.451	20
8	8	82	234.5	0.439	1

Total extinctions: 0

Generation time: 16.953 sec (16.624 average)

***** Running generation 812 *****

Population's average fitness: 23.79802 stdev: 126.49230

Best fitness: 246.34618 - size: (24, 38) - species 7 - id 186919

Average adjusted fitness: 0.456

Mean genetic distance 2.751, standard deviation 0.807

Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
5	330	83	245.5	0.475	114
7	25	85	246.3	0.458	21
8	9	81	223.7	0.436	2

Total extinctions: 0

Generation time: 15.696 sec (16.652 average)

***** Running generation 813 *****

Population's average fitness: 37.87036 stdev: 126.40690

Best fitness: 263.85179 - size: (24, 38) - species 7 - id 186919

Average adjusted fitness: 0.462

Mean genetic distance 2.818, standard deviation 0.844

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
5	331	86	237.0	0.488	115
7	26	84	263.9	0.457	0
8	10	80	223.8	0.441	3

Total extinctions: 0

Generation time: 17.330 sec (16.744 average)

***** Running generation 814 *****

Population's average fitness: 31.31984 stdev: 124.59022

Best fitness: 257.41389 - size: (23, 41) - species 5 - id 187363

Average adjusted fitness: 0.428

Mean genetic distance 2.728, standard deviation 0.837

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
5	332	89	257.4	0.474	116
7	27	80	230.7	0.390	1
8	11	81	221.6	0.421	4

Total extinctions: 0

Generation time: 16.212 sec (16.709 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-814

***** Running generation 815 *****

Population's average fitness: 31.70872 stdev: 128.67193

Best fitness: 256.33908 - size: (34, 58) - species 5 - id 187625

Average adjusted fitness: 0.422

Mean genetic distance 2.741, standard deviation 0.830

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
5	333	90	256.3	0.464	117
7	28	75	245.1	0.355	2
8	12	85	229.6	0.445	5

Total extinctions: 0

Generation time: 16.075 sec (16.659 average)

***** Running generation 816 *****

Population's average fitness: 40.10028 stdev: 127.03804

Best fitness: 243.31396 - size: (34, 58) - species 5 - id 187625

Average adjusted fitness: 0.494

Mean genetic distance 2.798, standard deviation 0.845

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
5	334	88	243.3	0.514	118
7	29	76	212.1	0.459	3
8	13	86	238.6	0.511	6

Total extinctions: 0

Generation time: 17.047 sec (16.629 average)

***** Running generation 817 *****

Population's average fitness: 40.40039 stdev: 130.55383

Best fitness: 251.90232 - size: (23, 36) - species 7 - id 187583

Average adjusted fitness: 0.481

Mean genetic distance 2.787, standard deviation 0.787

Population of 251 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
5	335	85	242.2	0.474	119
7	30	77	251.9	0.443	4
8	14	89	234.0	0.527	7

Total extinctions: 0

Generation time: 16.848 sec (16.669 average)

***** Running generation 818 *****

Population's average fitness: 27.59204 stdev: 125.70854

Best fitness: 261.04167 - size: (21, 37) - species 5 - id 188219

Average adjusted fitness: 0.414

Mean genetic distance 2.768, standard deviation 0.848

Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
5	336	85	261.0	0.427	120
7	31	77	228.9	0.385	5
8	15	87	257.6	0.431	0

Total extinctions: 0

Generation time: 15.645 sec (16.476 average)

***** Running generation 819 *****

Population's average fitness: 38.19648 stdev: 129.06170

Best fitness: 250.63723 - size: (34, 56) - species 5 - id 188533

Average adjusted fitness: 0.455

Mean genetic distance 2.777, standard deviation 0.853

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
5	337	87	250.6	0.491	121
7	32	79	228.7	0.423	6
8	16	84	242.7	0.452	1

Total extinctions: 0

Generation time: 16.230 sec (16.424 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-819

***** Running generation 820 *****

Population's average fitness: 39.93377 stdev: 129.01402

Best fitness: 252.04801 - size: (34, 55) - species 5 - id 188722

Average adjusted fitness: 0.481

Mean genetic distance 2.822, standard deviation 0.852

Population of 251 members in 3 species:

ID	age	size	fitness	adj fit	stag
5	338	86	252.0	0.485	122
7	33	83	238.5	0.501	7
8	17	82	243.0	0.456	2

Total extinctions: 0

Generation time: 17.084 sec (16.512 average)

***** Running generation 821 *****

Population's average fitness: 13.62747 stdev: 124.85033

Best fitness: 247.20835 - size: (24, 45) - species 8 - id 187081

Species 5 with 86 members is stagnated: removing it

Average adjusted fitness: 0.426

Mean genetic distance 2.209, standard deviation 0.583

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	34	126	239.4	0.431	8
8	18	124	247.2	0.420	3

Total extinctions: 0

Generation time: 15.169 sec (16.334 average)

***** Running generation 822 *****

Population's average fitness: 27.19691 stdev: 127.62407

Best fitness: 267.61500 - size: (25, 40) - species 7 - id 189101

Average adjusted fitness: 0.499

Mean genetic distance 2.250, standard deviation 0.593

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	35	124	267.6	0.490	0
8	19	126	253.8	0.509	4

Total extinctions: 0

Generation time: 16.597 sec (16.424 average)

***** Running generation 823 *****

Population's average fitness: 24.97469 stdev: 126.93324
 Best fitness: 252.95365 - size: (26, 42) - species 7 - id 188806
 Average adjusted fitness: 0.414
 Mean genetic distance 2.283, standard deviation 0.614
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	36	123	253.0	0.408	1
8	20	127	251.4	0.420	5

Total extinctions: 0
 Generation time: 15.943 sec (16.285 average)

***** Running generation 824 *****

Population's average fitness: 42.98853 stdev: 127.76248
 Best fitness: 246.34128 - size: (24, 37) - species 7 - id 189599
 Average adjusted fitness: 0.460
 Mean genetic distance 2.295, standard deviation 0.625
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	37	129	246.3	0.500	2
8	21	121	242.5	0.419	6

Total extinctions: 0
 Generation time: 16.179 sec (16.282 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-824

***** Running generation 825 *****

Population's average fitness: 44.59904 stdev: 131.12077
 Best fitness: 267.59578 - size: (24, 37) - species 7 - id 189897
 Average adjusted fitness: 0.468
 Mean genetic distance 2.307, standard deviation 0.680
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	38	128	267.6	0.481	3
8	22	122	233.5	0.455	7

Total extinctions: 0
 Generation time: 16.713 sec (16.346 average)

***** Running generation 826 *****

Population's average fitness: 31.35341 stdev: 128.42334
 Best fitness: 249.46841 - size: (24, 39) - species 7 - id 190070
 Average adjusted fitness: 0.436
 Mean genetic distance 2.406, standard deviation 0.637
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	39	131	249.5	0.466	4
8	23	119	227.9	0.407	8

Total extinctions: 0
 Generation time: 16.212 sec (16.262 average)

***** Running generation 827 *****

Population's average fitness: 29.67413 stdev: 122.70778
 Best fitness: 249.08187 - size: (23, 34) - species 8 - id 189938

Average adjusted fitness: 0.431
 Mean genetic distance 2.370, standard deviation 0.648
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	40	129	233.2	0.437	5
8	24	121	249.1	0.425	9

Total extinctions: 0
 Generation time: 16.275 sec (16.205 average)

***** Running generation 828 *****

Population's average fitness: 37.77417 stdev: 125.62435
 Best fitness: 252.81436 - size: (19, 26) - species 8 - id 189240
 Average adjusted fitness: 0.446
 Mean genetic distance 2.385, standard deviation 0.612
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	41	127	243.1	0.446	6
8	25	123	252.8	0.445	10

Total extinctions: 0
 Generation time: 15.629 sec (16.203 average)

***** Running generation 829 *****

Population's average fitness: 22.39696 stdev: 123.20769
 Best fitness: 243.47787 - size: (19, 26) - species 8 - id 190175
 Average adjusted fitness: 0.451
 Mean genetic distance 2.349, standard deviation 0.557
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	42	121	238.0	0.416	7
8	26	129	243.5	0.487	11

Total extinctions: 0
 Generation time: 15.548 sec (16.135 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-829

***** Running generation 830 *****

Population's average fitness: 21.91372 stdev: 121.21580
 Best fitness: 232.21561 - size: (19, 26) - species 8 - id 190594
 Average adjusted fitness: 0.418
 Mean genetic distance 2.350, standard deviation 0.510
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	43	124	231.8	0.408	8
8	27	126	232.2	0.428	12

Total extinctions: 0
 Generation time: 15.805 sec (16.007 average)

***** Running generation 831 *****

Population's average fitness: 17.17178 stdev: 121.13785
 Best fitness: 237.74691 - size: (26, 39) - species 7 - id 190291
 Average adjusted fitness: 0.399
 Mean genetic distance 2.290, standard deviation 0.494

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	44	129	237.7	0.418	9
8	28	121	236.2	0.380	13

Total extinctions: 0

Generation time: 15.694 sec (16.059 average)

***** Running generation 832 *****

Population's average fitness: 17.52321 stdev: 119.67992

Best fitness: 244.79712 - size: (26, 37) - species 7 - id 191151

Average adjusted fitness: 0.441

Mean genetic distance 2.326, standard deviation 0.452

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	45	132	244.8	0.484	10
8	29	118	232.7	0.398	14

Total extinctions: 0

Generation time: 15.325 sec (15.932 average)

***** Running generation 833 *****

Population's average fitness: 25.13652 stdev: 123.22690

Best fitness: 256.67480 - size: (25, 40) - species 7 - id 191652

Average adjusted fitness: 0.410

Mean genetic distance 2.356, standard deviation 0.447

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	46	138	256.7	0.421	11
8	30	112	241.9	0.399	15

Total extinctions: 0

Generation time: 15.560 sec (15.894 average)

***** Running generation 834 *****

Population's average fitness: 17.44327 stdev: 119.74805

Best fitness: 226.19738 - size: (26, 39) - species 7 - id 190291

Average adjusted fitness: 0.429

Mean genetic distance 2.385, standard deviation 0.492

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	47	147	226.2	0.438	12
8	31	103	216.4	0.420	16

Total extinctions: 0

Generation time: 15.096 sec (15.786 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-834

***** Running generation 835 *****

Population's average fitness: 33.64742 stdev: 122.37927

Best fitness: 264.29470 - size: (25, 35) - species 7 - id 192166

Average adjusted fitness: 0.451

Mean genetic distance 2.515, standard deviation 0.524

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------

```

=====
7  48  132  264.3  0.418  13
8  32  118  246.2  0.484  17
Total extinctions: 0
Generation time: 16.712 sec (15.786 average)

```

***** Running generation 836 *****

```

Population's average fitness: 25.37969 stdev: 126.32621
Best fitness: 248.85649 - size: (26, 42) - species 7 - id 192428
Average adjusted fitness: 0.464
Mean genetic distance 2.584, standard deviation 0.556
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
7  49  125  248.9  0.439  14
8  33  125  240.6  0.488  18
Total extinctions: 0
Generation time: 15.180 sec (15.683 average)

```

***** Running generation 837 *****

```

Population's average fitness: 31.31279 stdev: 125.38598
Best fitness: 246.08598 - size: (26, 40) - species 7 - id 192212
Average adjusted fitness: 0.438
Mean genetic distance 2.595, standard deviation 0.505
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
7  50  121  246.1  0.409  15
8  34  129  236.9  0.468  19
Total extinctions: 0
Generation time: 15.869 sec (15.642 average)

```

***** Running generation 838 *****

```

Population's average fitness: 41.92774 stdev: 124.51036
Best fitness: 238.83651 - size: (26, 41) - species 7 - id 192813
Average adjusted fitness: 0.467
Mean genetic distance 2.553, standard deviation 0.497
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
7  51  122  238.8  0.455  16
8  35  128  237.8  0.479  20
Total extinctions: 0
Generation time: 16.677 sec (15.747 average)

```

***** Running generation 839 *****

```

Population's average fitness: 23.73962 stdev: 120.96119
Best fitness: 248.41735 - size: (24, 37) - species 8 - id 192508
Average adjusted fitness: 0.404
Mean genetic distance 2.487, standard deviation 0.573
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
7  52  118  227.0  0.371  17
8  36  132  248.4  0.437  21
Total extinctions: 0

```

Generation time: 17.222 sec (15.914 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-839

***** Running generation 840 *****

Population's average fitness: 44.84936 stdev: 122.59317
 Best fitness: 246.28584 - size: (25, 36) - species 7 - id 193212
 Average adjusted fitness: 0.480
 Mean genetic distance 2.471, standard deviation 0.688
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	53	119	246.3	0.456	18
8	37	131	234.4	0.505	22

Total extinctions: 0
 Generation time: 19.471 sec (16.281 average)

***** Running generation 841 *****

Population's average fitness: 35.03846 stdev: 128.04812
 Best fitness: 246.82709 - size: (25, 34) - species 7 - id 193587
 Average adjusted fitness: 0.466
 Mean genetic distance 2.482, standard deviation 0.636
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	54	120	246.8	0.452	19
8	38	130	242.6	0.481	23

Total extinctions: 0
 Generation time: 16.625 sec (16.374 average)

***** Running generation 842 *****

Population's average fitness: 26.51546 stdev: 121.58836
 Best fitness: 249.47389 - size: (24, 37) - species 8 - id 192508
 Average adjusted fitness: 0.425
 Mean genetic distance 2.517, standard deviation 0.633
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	55	118	240.9	0.396	20
8	39	132	249.5	0.455	24

Total extinctions: 0
 Generation time: 16.597 sec (16.501 average)

***** Running generation 843 *****

Population's average fitness: 27.41328 stdev: 123.24967
 Best fitness: 240.44698 - size: (25, 36) - species 7 - id 193886
 Average adjusted fitness: 0.439
 Mean genetic distance 2.541, standard deviation 0.668
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	56	123	240.4	0.450	21
8	40	127	223.7	0.427	25

Total extinctions: 0
 Generation time: 16.518 sec (16.597 average)

***** Running generation 844 *****

Population's average fitness: 17.93029 stdev: 124.02656

Best fitness: 241.23746 - size: (28, 46) - species 7 - id 193908

Average adjusted fitness: 0.472

Mean genetic distance 2.587, standard deviation 0.621

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	57	121	241.2	0.450	22
8	41	129	219.1	0.495	26

Total extinctions: 0

Generation time: 16.307 sec (16.718 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-844

***** Running generation 845 *****

Population's average fitness: 25.29563 stdev: 122.43069

Best fitness: 262.02833 - size: (25, 37) - species 8 - id 194382

Average adjusted fitness: 0.423

Mean genetic distance 2.456, standard deviation 0.606

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	58	120	241.8	0.408	23
8	42	130	262.0	0.439	0

Total extinctions: 0

Generation time: 16.830 sec (16.730 average)

***** Running generation 846 *****

Population's average fitness: 31.30290 stdev: 121.44678

Best fitness: 254.36604 - size: (26, 43) - species 7 - id 194593

Average adjusted fitness: 0.446

Mean genetic distance 2.398, standard deviation 0.563

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	59	122	254.4	0.446	24
8	43	128	244.9	0.447	1

Total extinctions: 0

Generation time: 17.040 sec (16.916 average)

***** Running generation 847 *****

Population's average fitness: 26.57123 stdev: 124.01533

Best fitness: 248.76099 - size: (28, 46) - species 7 - id 194879

Average adjusted fitness: 0.459

Mean genetic distance 2.389, standard deviation 0.592

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	60	123	248.8	0.452	25
8	44	127	230.5	0.467	2

Total extinctions: 0

Generation time: 17.342 sec (17.063 average)

***** Running generation 848 *****

Population's average fitness: 5.52551 stdev: 113.97770
 Best fitness: 251.15439 - size: (26, 43) - species 7 - id 194593
 Average adjusted fitness: 0.387
 Mean genetic distance 2.333, standard deviation 0.617
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	61	120	251.2	0.360	26
8	45	130	228.7	0.413	3

Total extinctions: 0
 Generation time: 16.107 sec (17.006 average)

***** Running generation 849 *****

Population's average fitness: 25.22203 stdev: 121.44091
 Best fitness: 267.30495 - size: (26, 45) - species 7 - id 195430
 Average adjusted fitness: 0.410
 Mean genetic distance 2.324, standard deviation 0.616
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	62	121	267.3	0.401	27
8	46	129	238.9	0.419	4

Total extinctions: 0
 Generation time: 16.614 sec (16.945 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-849

***** Running generation 850 *****

Population's average fitness: 33.71978 stdev: 120.33007
 Best fitness: 259.20156 - size: (26, 43) - species 7 - id 195398
 Average adjusted fitness: 0.454
 Mean genetic distance 2.310, standard deviation 0.600
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	63	122	259.2	0.441	28
8	47	128	229.6	0.468	5

Total extinctions: 0
 Generation time: 17.360 sec (16.734 average)

***** Running generation 851 *****

Population's average fitness: 36.58742 stdev: 120.64472
 Best fitness: 237.52523 - size: (25, 36) - species 7 - id 195896
 Average adjusted fitness: 0.475
 Mean genetic distance 2.362, standard deviation 0.593
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	64	118	237.5	0.431	29
8	48	132	223.4	0.518	6

Total extinctions: 0
 Generation time: 16.898 sec (16.761 average)

***** Running generation 852 *****

Population's average fitness: 28.08808 stdev: 126.36967
 Best fitness: 260.17743 - size: (25, 37) - species 8 - id 195705

Average adjusted fitness: 0.416
 Mean genetic distance 2.432, standard deviation 0.527
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	65	116	245.6	0.380	30
8	49	134	260.2	0.453	7

 Total extinctions: 0
 Generation time: 15.873 sec (16.689 average)

***** Running generation 853 *****

Population's average fitness: 31.52272 stdev: 128.50828
 Best fitness: 249.86373 - size: (24, 42) - species 7 - id 196212
 Average adjusted fitness: 0.454
 Mean genetic distance 2.427, standard deviation 0.502
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	66	115	249.9	0.418	31
8	50	135	238.0	0.490	8

 Total extinctions: 0
 Generation time: 16.736 sec (16.711 average)

***** Running generation 854 *****

Population's average fitness: 29.92522 stdev: 126.36846
 Best fitness: 269.96336 - size: (26, 39) - species 7 - id 196547
 Average adjusted fitness: 0.411
 Mean genetic distance 2.396, standard deviation 0.544
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	67	118	270.0	0.401	0
8	51	132	243.3	0.422	9

 Total extinctions: 0
 Generation time: 16.249 sec (16.705 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-854

***** Running generation 855 *****

Population's average fitness: 36.87361 stdev: 128.26009
 Best fitness: 263.39179 - size: (26, 39) - species 7 - id 196764
 Average adjusted fitness: 0.464
 Mean genetic distance 2.389, standard deviation 0.520
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	68	121	263.4	0.457	1
8	52	129	242.3	0.471	10

 Total extinctions: 0
 Generation time: 16.624 sec (16.684 average)

***** Running generation 856 *****

Population's average fitness: 31.37841 stdev: 123.33543
 Best fitness: 247.62813 - size: (24, 37) - species 8 - id 196694
 Average adjusted fitness: 0.436
 Mean genetic distance 2.444, standard deviation 0.499

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	69	122	244.2	0.428	2
8	53	128	247.6	0.445	11

Total extinctions: 0

Generation time: 16.934 sec (16.674 average)

***** Running generation 857 *****

Population's average fitness: 36.08757 stdev: 128.89056

Best fitness: 247.94826 - size: (26, 44) - species 7 - id 197140

Average adjusted fitness: 0.465

Mean genetic distance 2.512, standard deviation 0.516

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	70	117	247.9	0.413	3
8	54	133	238.2	0.516	12

Total extinctions: 0

Generation time: 16.527 sec (16.592 average)

***** Running generation 858 *****

Population's average fitness: 44.03230 stdev: 125.04648

Best fitness: 258.41813 - size: (25, 36) - species 8 - id 197183

Average adjusted fitness: 0.467

Mean genetic distance 2.469, standard deviation 0.501

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	71	122	252.4	0.475	4
8	55	128	258.4	0.460	13

Total extinctions: 0

Generation time: 17.699 sec (16.751 average)

***** Running generation 859 *****

Population's average fitness: 33.08078 stdev: 131.93117

Best fitness: 245.89430 - size: (26, 44) - species 7 - id 197140

Average adjusted fitness: 0.450

Mean genetic distance 2.396, standard deviation 0.550

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	72	118	245.9	0.411	5
8	56	132	240.1	0.490	14

Total extinctions: 0

Generation time: 15.724 sec (16.662 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-859

***** Running generation 860 *****

Population's average fitness: 32.71511 stdev: 123.73282

Best fitness: 253.29661 - size: (27, 44) - species 7 - id 197918

Average adjusted fitness: 0.431

Mean genetic distance 2.368, standard deviation 0.647

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
----	-----	------	---------	---------	------


```

=====
7  73  120  253.3  0.421  6
8  57  130  225.4  0.441  15
Total extinctions: 0
Generation time: 16.234 sec (16.550 average)

```

***** Running generation 861 *****

```

Population's average fitness: 25.12688 stdev: 126.57669
Best fitness: 252.76811 - size: (25, 38) - species 8 - id 197788
Average adjusted fitness: 0.422
Mean genetic distance 2.400, standard deviation 0.593
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
7  74  120  238.2  0.402  7
8  58  130  252.8  0.441  16
Total extinctions: 0
Generation time: 15.748 sec (16.435 average)

```

***** Running generation 862 *****

```

Population's average fitness: 30.71089 stdev: 125.71641
Best fitness: 272.11993 - size: (25, 38) - species 8 - id 197788
Average adjusted fitness: 0.392
Mean genetic distance 2.458, standard deviation 0.550
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
7  75  121  238.7  0.378  8
8  59  129  272.1  0.405  0
Total extinctions: 0
Generation time: 16.351 sec (16.482 average)

```

***** Running generation 863 *****

```

Population's average fitness: 39.73033 stdev: 127.28313
Best fitness: 242.29656 - size: (27, 43) - species 7 - id 198453
Average adjusted fitness: 0.483
Mean genetic distance 2.496, standard deviation 0.520
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
7  76  122  242.3  0.469  9
8  60  128  234.4  0.497  1
Total extinctions: 0
Generation time: 16.532 sec (16.462 average)

```

***** Running generation 864 *****

```

Population's average fitness: 40.70933 stdev: 125.34708
Best fitness: 265.49175 - size: (28, 48) - species 7 - id 198813
Average adjusted fitness: 0.434
Mean genetic distance 2.406, standard deviation 0.570
Population of 250 members in 2 species:
  ID  age  size  fitness  adj fit  stag
=====
7  77  118  265.5  0.397  10
8  61  132  257.7  0.470  2
Total extinctions: 0

```

Generation time: 16.945 sec (16.532 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-864

***** Running generation 865 *****

Population's average fitness: 50.63560 stdev: 129.30737
 Best fitness: 260.08766 - size: (24, 31) - species 8 - id 198920
 Average adjusted fitness: 0.461
 Mean genetic distance 2.458, standard deviation 0.581
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	78	119	240.7	0.436	11
8	62	131	260.1	0.487	3

Total extinctions: 0
 Generation time: 16.971 sec (16.566 average)

***** Running generation 866 *****

Population's average fitness: 43.98984 stdev: 128.22169
 Best fitness: 267.70774 - size: (23, 30) - species 8 - id 198989
 Average adjusted fitness: 0.447
 Mean genetic distance 2.488, standard deviation 0.628
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	79	114	239.6	0.390	12
8	63	136	267.7	0.505	4

Total extinctions: 0
 Generation time: 16.864 sec (16.559 average)

***** Running generation 867 *****

Population's average fitness: 44.40179 stdev: 126.07023
 Best fitness: 255.22862 - size: (27, 43) - species 8 - id 199508
 Average adjusted fitness: 0.467
 Mean genetic distance 2.501, standard deviation 0.678
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	80	115	235.7	0.436	13
8	64	135	255.2	0.498	5

Total extinctions: 0
 Generation time: 17.349 sec (16.642 average)

***** Running generation 868 *****

Population's average fitness: 37.03997 stdev: 124.54244
 Best fitness: 262.16093 - size: (26, 42) - species 8 - id 199703
 Average adjusted fitness: 0.428
 Mean genetic distance 2.478, standard deviation 0.705
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	81	113	247.0	0.383	14
8	65	137	262.2	0.474	6

Total extinctions: 0
 Generation time: 16.789 sec (16.551 average)

***** Running generation 869 *****

Population's average fitness: 36.54499 stdev: 126.63544

Best fitness: 253.98743 - size: (25, 41) - species 7 - id 199836

Average adjusted fitness: 0.440

Mean genetic distance 2.503, standard deviation 0.710

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	82	112	254.0	0.395	15
8	66	138	238.6	0.485	7

Total extinctions: 0

Generation time: 17.062 sec (16.685 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-869

***** Running generation 870 *****

Population's average fitness: 45.00050 stdev: 125.79775

Best fitness: 262.93065 - size: (24, 39) - species 7 - id 199899

Average adjusted fitness: 0.448

Mean genetic distance 2.591, standard deviation 0.692

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	83	118	262.9	0.448	16
8	67	132	240.2	0.449	8

Total extinctions: 0

Generation time: 17.594 sec (16.821 average)

***** Running generation 871 *****

Population's average fitness: 33.65998 stdev: 122.36745

Best fitness: 235.09565 - size: (24, 39) - species 7 - id 199899

Average adjusted fitness: 0.442

Mean genetic distance 2.492, standard deviation 0.619

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	84	119	235.1	0.420	17
8	68	131	231.6	0.463	9

Total extinctions: 0

Generation time: 16.406 sec (16.886 average)

***** Running generation 872 *****

Population's average fitness: 27.29570 stdev: 121.92035

Best fitness: 251.27481 - size: (23, 37) - species 8 - id 200578

Average adjusted fitness: 0.427

Mean genetic distance 2.444, standard deviation 0.583

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	85	122	240.5	0.425	18
8	69	128	251.3	0.429	10

Total extinctions: 0

Generation time: 16.664 sec (16.918 average)

***** Running generation 873 *****

Population's average fitness: 19.30831 stdev: 121.68508
 Best fitness: 249.24834 - size: (23, 27) - species 8 - id 200915
 Average adjusted fitness: 0.408
 Mean genetic distance 2.477, standard deviation 0.580
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	86	119	222.7	0.378	19
8	70	131	249.2	0.438	11

Total extinctions: 0
 Generation time: 16.457 sec (16.910 average)

***** Running generation 874 *****

Population's average fitness: 39.51206 stdev: 131.47400
 Best fitness: 245.14545 - size: (26, 41) - species 7 - id 201059
 Average adjusted fitness: 0.454
 Mean genetic distance 2.436, standard deviation 0.611
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	87	124	245.1	0.468	20
8	71	126	234.5	0.440	12

Total extinctions: 0
 Generation time: 16.412 sec (16.857 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-874

***** Running generation 875 *****

Population's average fitness: 13.34701 stdev: 125.88380
 Best fitness: 254.00838 - size: (24, 35) - species 8 - id 201166
 Average adjusted fitness: 0.413
 Mean genetic distance 2.557, standard deviation 0.590
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	88	117	232.8	0.364	21
8	72	133	254.0	0.461	13

Total extinctions: 0
 Generation time: 14.864 sec (16.646 average)

***** Running generation 876 *****

Population's average fitness: 35.52775 stdev: 128.25608
 Best fitness: 254.98796 - size: (28, 43) - species 8 - id 201258
 Average adjusted fitness: 0.441
 Mean genetic distance 2.457, standard deviation 0.612
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	89	118	241.1	0.421	22
8	73	132	255.0	0.460	14

Total extinctions: 0
 Generation time: 15.490 sec (16.509 average)

***** Running generation 877 *****

Population's average fitness: 54.35970 stdev: 131.36823
 Best fitness: 253.31288 - size: (22, 30) - species 8 - id 201773

Average adjusted fitness: 0.525
 Mean genetic distance 2.556, standard deviation 0.568
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	90	121	237.5	0.522	23
8	74	129	253.3	0.527	15

 Total extinctions: 0
 Generation time: 16.269 sec (16.401 average)

***** Running generation 878 *****

Population's average fitness: 32.59584 stdev: 123.24376
 Best fitness: 252.20401 - size: (26, 42) - species 7 - id 201899
 Average adjusted fitness: 0.450
 Mean genetic distance 2.552, standard deviation 0.579
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	91	122	252.2	0.446	24
8	75	128	234.3	0.454	16

 Total extinctions: 0
 Generation time: 15.545 sec (16.276 average)

***** Running generation 879 *****

Population's average fitness: 21.62146 stdev: 127.80501
 Best fitness: 258.03410 - size: (26, 44) - species 7 - id 202315
 Average adjusted fitness: 0.407
 Mean genetic distance 2.548, standard deviation 0.570
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	92	126	258.0	0.422	25
8	76	124	255.5	0.391	17

 Total extinctions: 0
 Generation time: 15.028 sec (16.073 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-879

***** Running generation 880 *****

Population's average fitness: 37.86565 stdev: 129.33980
 Best fitness: 250.82109 - size: (28, 42) - species 7 - id 201333
 Average adjusted fitness: 0.446
 Mean genetic distance 2.619, standard deviation 0.601
 Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
7	93	125	250.8	0.444	26
8	77	117	238.2	0.447	18
9	0	8	--	--	0

 Total extinctions: 0
 Generation time: 15.466 sec (15.860 average)

***** Running generation 881 *****

Population's average fitness: 38.27352 stdev: 126.73644
 Best fitness: 233.24309 - size: (29, 42) - species 7 - id 201966
 Average adjusted fitness: 0.456

Mean genetic distance 2.692, standard deviation 0.586

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
7	94	108	233.2	0.494	27
8	78	64	225.5	0.469	19
9	1	78	222.2	0.404	0

Total extinctions: 0

Generation time: 16.409 sec (15.860 average)

***** Running generation 882 *****

Population's average fitness: 24.65116 stdev: 122.58834

Best fitness: 246.83285 - size: (28, 46) - species 7 - id 202931

Species 8 with 64 members is stagnated: removing it

Average adjusted fitness: 0.450

Mean genetic distance 2.756, standard deviation 0.747

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
7	95	133	246.8	0.443	28
9	2	117	241.8	0.456	0

Total extinctions: 0

Generation time: 15.228 sec (15.717 average)

***** Running generation 883 *****

Population's average fitness: 21.02769 stdev: 124.40195

Best fitness: 247.33416 - size: (28, 46) - species 7 - id 202931

Average adjusted fitness: 0.410

Mean genetic distance 2.793, standard deviation 0.690

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
7	96	128	247.3	0.442	29
9	3	116	237.7	0.377	1
10	0	6	--	--	0

Total extinctions: 0

Generation time: 15.345 sec (15.605 average)

***** Running generation 884 *****

Population's average fitness: 6.52367 stdev: 118.54866

Best fitness: 237.26868 - size: (24, 38) - species 7 - id 203472

Average adjusted fitness: 0.487

Mean genetic distance 2.813, standard deviation 0.639

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
7	97	13	237.3	0.399	30
9	4	88	233.5	0.348	2
10	1	149	230.7	0.714	0

Total extinctions: 0

Generation time: 14.376 sec (15.402 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-884

***** Running generation 885 *****

Population's average fitness: 9.32633 stdev: 120.72265
 Best fitness: 240.67583 - size: (24, 38) - species 7 - id 203472
 Average adjusted fitness: 0.425
 Mean genetic distance 2.711, standard deviation 0.679
 Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
7	98	52	240.7	0.466	31
9	5	81	220.7	0.377	3
10	2	117	224.6	0.433	1

Total extinctions: 0
 Generation time: 15.331 sec (15.449 average)

***** Running generation 886 *****

Population's average fitness: 24.77005 stdev: 119.49184
 Best fitness: 226.69011 - size: (29, 45) - species 10 - id 203461

Species 7 with 52 members is stagnated: removing it
 Average adjusted fitness: 0.471
 Mean genetic distance 2.578, standard deviation 0.750
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	6	116	222.3	0.480	4
10	3	134	226.7	0.463	2

Total extinctions: 0
 Generation time: 16.194 sec (15.519 average)

***** Running generation 887 *****

Population's average fitness: 19.26971 stdev: 125.30399
 Best fitness: 241.99188 - size: (29, 41) - species 10 - id 204104
 Average adjusted fitness: 0.503
 Mean genetic distance 2.569, standard deviation 0.771
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	7	117	232.9	0.479	5
10	4	133	242.0	0.528	0

Total extinctions: 0
 Generation time: 16.143 sec (15.506 average)

***** Running generation 888 *****

Population's average fitness: 13.92943 stdev: 123.67707
 Best fitness: 267.51087 - size: (28, 41) - species 9 - id 204175
 Average adjusted fitness: 0.369
 Mean genetic distance 2.580, standard deviation 0.781
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	8	123	267.5	0.382	0
10	5	127	242.2	0.356	0

Total extinctions: 0
 Generation time: 15.331 sec (15.485 average)

***** Running generation 889 *****

Population's average fitness: 24.65822 stdev: 121.98834

Best fitness: 264.04055 - size: (28, 41) - species 9 - id 204175

Average adjusted fitness: 0.405

Mean genetic distance 2.537, standard deviation 0.790

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	9	126	264.0	0.417	1
10	6	124	230.0	0.393	1

Total extinctions: 0

Generation time: 15.962 sec (15.578 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-889

***** Running generation 890 *****

Population's average fitness: 26.46040 stdev: 124.35256

Best fitness: 261.58541 - size: (28, 41) - species 10 - id 204082

Average adjusted fitness: 0.396

Mean genetic distance 2.479, standard deviation 0.807

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	10	124	248.0	0.384	2
10	7	126	261.6	0.407	0

Total extinctions: 0

Generation time: 15.832 sec (15.615 average)

***** Running generation 891 *****

Population's average fitness: 22.65863 stdev: 123.35940

Best fitness: 242.71818 - size: (28, 41) - species 9 - id 204175

Average adjusted fitness: 0.423

Mean genetic distance 2.492, standard deviation 0.783

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	11	130	242.7	0.462	3
10	8	120	229.8	0.383	1

Total extinctions: 0

Generation time: 15.579 sec (15.532 average)

***** Running generation 892 *****

Population's average fitness: 15.31127 stdev: 121.01191

Best fitness: 252.28454 - size: (28, 41) - species 9 - id 204175

Average adjusted fitness: 0.405

Mean genetic distance 2.498, standard deviation 0.790

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	12	125	252.3	0.388	4
10	9	125	245.0	0.423	2

Total extinctions: 0

Generation time: 15.199 sec (15.529 average)

***** Running generation 893 *****

Population's average fitness: 21.09574 stdev: 120.70199

Best fitness: 247.91081 - size: (29, 43) - species 10 - id 205055

Average adjusted fitness: 0.405

Mean genetic distance 2.533, standard deviation 0.815

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	13	128	244.9	0.424	5
10	10	122	247.9	0.386	3

Total extinctions: 0

Generation time: 15.541 sec (15.549 average)

***** Running generation 894 *****

Population's average fitness: 11.72429 stdev: 123.92270

Best fitness: 260.32686 - size: (28, 36) - species 9 - id 205562

Average adjusted fitness: 0.394

Mean genetic distance 2.565, standard deviation 0.816

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	14	130	260.3	0.414	6
10	11	120	232.9	0.374	4

Total extinctions: 0

Generation time: 15.116 sec (15.623 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-894

***** Running generation 895 *****

Population's average fitness: 19.52357 stdev: 122.11643

Best fitness: 239.05029 - size: (25, 34) - species 9 - id 205217

Average adjusted fitness: 0.417

Mean genetic distance 2.597, standard deviation 0.831

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	15	131	239.1	0.438	7
10	12	119	236.4	0.395	5

Total extinctions: 0

Generation time: 15.451 sec (15.635 average)

***** Running generation 896 *****

Population's average fitness: 20.76672 stdev: 123.82130

Best fitness: 254.48804 - size: (28, 40) - species 10 - id 206069

Average adjusted fitness: 0.397

Mean genetic distance 2.620, standard deviation 0.811

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	16	128	251.8	0.393	8
10	13	122	254.5	0.400	6

Total extinctions: 0

Generation time: 15.494 sec (15.565 average)

***** Running generation 897 *****

Population's average fitness: 12.92416 stdev: 120.76731

Best fitness: 242.52651 - size: (28, 40) - species 9 - id 206235

Average adjusted fitness: 0.396

Mean genetic distance 2.602, standard deviation 0.791

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
9	17	129	242.5	0.406	9
10	14	121	242.1	0.386	7

Total extinctions: 0

Generation time: 15.444 sec (15.495 average)

***** Running generation 898 *****

Population's average fitness: 20.35383 stdev: 125.52233

Best fitness: 249.67324 - size: (27, 32) - species 10 - id 206540

Average adjusted fitness: 0.414

Mean genetic distance 2.609, standard deviation 0.782

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
9	18	125	236.6	0.400	10
10	15	125	249.7	0.428	8

Total extinctions: 0

Generation time: 15.422 sec (15.504 average)

***** Running generation 899 *****

Population's average fitness: 24.43229 stdev: 120.53527

Best fitness: 258.08356 - size: (28, 39) - species 9 - id 206765

Average adjusted fitness: 0.417

Mean genetic distance 2.582, standard deviation 0.795

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
9	19	123	258.1	0.404	11
10	16	127	221.7	0.430	9

Total extinctions: 0

Generation time: 15.850 sec (15.493 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-899

***** Running generation 900 *****

Population's average fitness: 20.47215 stdev: 126.92250

Best fitness: 253.46679 - size: (28, 39) - species 9 - id 204890

Average adjusted fitness: 0.422

Mean genetic distance 2.573, standard deviation 0.822

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
9	20	122	253.5	0.409	12
10	17	128	239.9	0.436	10

Total extinctions: 0

Generation time: 13.816 sec (15.291 average)

***** Running generation 901 *****

Population's average fitness: 35.67983 stdev: 129.33660

Best fitness: 250.61426 - size: (27, 35) - species 10 - id 207197

Average adjusted fitness: 0.491

Mean genetic distance 2.613, standard deviation 0.821

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====

9	21	125	247.7	0.500	13
10	18	125	250.6	0.482	11

Total extinctions: 0

Generation time: 16.026 sec (15.336 average)

***** Running generation 902 *****

Population's average fitness: 10.64936 stdev: 123.01318

Best fitness: 246.60952 - size: (27, 35) - species 10 - id 207245

Average adjusted fitness: 0.450

Mean genetic distance 2.695, standard deviation 0.763

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	22	124	232.3	0.443	14
10	19	126	246.6	0.456	12

Total extinctions: 0

Generation time: 15.198 sec (15.336 average)

***** Running generation 903 *****

Population's average fitness: 28.36732 stdev: 126.31147

Best fitness: 242.43699 - size: (27, 36) - species 10 - id 207006

Average adjusted fitness: 0.428

Mean genetic distance 2.652, standard deviation 0.855

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	23	119	237.9	0.389	15
10	20	131	242.4	0.466	13

Total extinctions: 0

Generation time: 15.976 sec (15.379 average)

***** Running generation 904 *****

Population's average fitness: 36.24231 stdev: 125.10671

Best fitness: 243.76185 - size: (29, 39) - species 10 - id 208008

Average adjusted fitness: 0.444

Mean genetic distance 2.628, standard deviation 0.849

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	24	118	235.9	0.417	16
10	21	132	243.8	0.471	14

Total extinctions: 0

Generation time: 16.031 sec (15.471 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-904

***** Running generation 905 *****

Population's average fitness: 37.16581 stdev: 127.54483

Best fitness: 262.33551 - size: (28, 39) - species 9 - id 208122

Average adjusted fitness: 0.478

Mean genetic distance 2.700, standard deviation 0.782

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	25	119	262.3	0.457	17
10	22	131	237.5	0.500	15

Total extinctions: 0
 Generation time: 15.926 sec (15.518 average)

***** Running generation 906 *****

Population's average fitness: 28.65212 stdev: 128.11593
 Best fitness: 248.87339 - size: (29, 39) - species 10 - id 208008
 Average adjusted fitness: 0.493
 Mean genetic distance 2.680, standard deviation 0.771
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	26	121	242.7	0.488	18
10	23	129	248.9	0.498	16

Total extinctions: 0
 Generation time: 15.620 sec (15.531 average)

***** Running generation 907 *****

Population's average fitness: 31.91938 stdev: 127.67507
 Best fitness: 268.51946 - size: (28, 35) - species 9 - id 208508
 Average adjusted fitness: 0.412
 Mean genetic distance 2.694, standard deviation 0.761
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	27	120	268.5	0.396	0
10	24	130	238.4	0.429	17

Total extinctions: 0
 Generation time: 16.070 sec (15.593 average)

***** Running generation 908 *****

Population's average fitness: 17.13123 stdev: 123.60221
 Best fitness: 241.52106 - size: (29, 39) - species 10 - id 208008
 Average adjusted fitness: 0.413
 Mean genetic distance 2.742, standard deviation 0.790
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	28	122	227.3	0.408	1
10	25	128	241.5	0.417	18

Total extinctions: 0
 Generation time: 14.769 sec (15.528 average)

***** Running generation 909 *****

Population's average fitness: 16.89388 stdev: 123.88322
 Best fitness: 250.42494 - size: (29, 39) - species 10 - id 209106
 Average adjusted fitness: 0.408
 Mean genetic distance 2.818, standard deviation 0.753
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	29	123	246.2	0.402	2
10	26	127	250.4	0.415	19

Total extinctions: 0
 Generation time: 15.260 sec (15.469 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-909

***** Running generation 910 *****

Population's average fitness: 25.73122 stdev: 122.91694
 Best fitness: 237.26157 - size: (28, 40) - species 10 - id 209422
 Average adjusted fitness: 0.535
 Mean genetic distance 2.726, standard deviation 0.698
 Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	30	129	235.3	0.580	3
10	27	61	237.3	0.490	20
11	0	60	--	--	0

Total extinctions: 0
 Generation time: 15.768 sec (15.664 average)

***** Running generation 911 *****

Population's average fitness: 29.55707 stdev: 122.57901
 Best fitness: 237.49910 - size: (30, 41) - species 11 - id 209595

Species 10 with 61 members is stagnated: removing it
 Average adjusted fitness: 0.407
 Mean genetic distance 2.733, standard deviation 0.796
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	31	152	232.9	0.452	4
11	1	98	237.5	0.363	0

Total extinctions: 0
 Generation time: 16.281 sec (15.690 average)

***** Running generation 912 *****

Population's average fitness: 32.50265 stdev: 125.36866
 Best fitness: 242.75125 - size: (27, 42) - species 9 - id 209758
 Average adjusted fitness: 0.514
 Mean genetic distance 2.637, standard deviation 0.849
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	32	143	242.8	0.554	5
11	2	107	238.5	0.474	0

Total extinctions: 0
 Generation time: 17.303 sec (15.900 average)

***** Running generation 913 *****

Population's average fitness: 24.88934 stdev: 120.23378
 Best fitness: 235.85732 - size: (29, 45) - species 9 - id 209767
 Average adjusted fitness: 0.424
 Mean genetic distance 2.702, standard deviation 0.806
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	33	130	235.9	0.394	6
11	3	120	230.0	0.453	1

Total extinctions: 0
 Generation time: 15.296 sec (15.832 average)

***** Running generation 914 *****

Population's average fitness: 30.46905 stdev: 127.09758

Best fitness: 245.03610 - size: (29, 45) - species 9 - id 210290

Average adjusted fitness: 0.443

Mean genetic distance 2.706, standard deviation 0.782

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	34	123	245.0	0.413	7
11	4	127	234.8	0.473	2

Total extinctions: 0

Generation time: 15.986 sec (15.828 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-914

***** Running generation 915 *****

Population's average fitness: 23.41451 stdev: 121.67461

Best fitness: 243.00037 - size: (29, 40) - species 9 - id 210517

Average adjusted fitness: 0.439

Mean genetic distance 2.620, standard deviation 0.804

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
9	35	128	243.0	0.468	8
11	5	122	227.4	0.410	3

Total extinctions: 0

Generation time: 15.794 sec (15.815 average)

***** Running generation 916 *****

Population's average fitness: 38.59855 stdev: 121.29655

Best fitness: 243.88318 - size: (28, 45) - species 11 - id 209924

Average adjusted fitness: 0.459

Mean genetic distance 2.629, standard deviation 0.750

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	36	110	233.4	0.467	9
11	6	123	243.9	0.450	0
12	0	17	--	--	0

Total extinctions: 0

Generation time: 16.801 sec (15.933 average)

***** Running generation 917 *****

Population's average fitness: 11.35801 stdev: 120.67514

Best fitness: 239.34793 - size: (27, 33) - species 9 - id 210861

Average adjusted fitness: 0.362

Mean genetic distance 2.701, standard deviation 0.692

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	37	120	239.3	0.460	10
11	7	103	222.0	0.360	1
12	1	27	172.7	0.265	0

Total extinctions: 0

Generation time: 15.151 sec (15.841 average)

***** Running generation 918 *****

Population's average fitness: 20.44294 stdev: 115.87684
 Best fitness: 239.33008 - size: (27, 33) - species 9 - id 210861
 Average adjusted fitness: 0.457
 Mean genetic distance 2.733, standard deviation 0.692
 Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	38	99	239.3	0.487	11
11	8	94	222.3	0.468	2
12	2	56	178.3	0.416	0

Total extinctions: 0
 Generation time: 16.018 sec (15.966 average)

***** Running generation 919 *****

Population's average fitness: 29.24081 stdev: 117.58928
 Best fitness: 255.85030 - size: (27, 33) - species 9 - id 210861
 Average adjusted fitness: 0.399
 Mean genetic distance 2.654, standard deviation 0.741
 Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	39	67	255.9	0.431	12
11	9	93	234.9	0.438	3
12	3	89	189.4	0.329	0

Total extinctions: 0
 Generation time: 16.211 sec (16.061 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-919

***** Running generation 920 *****

Population's average fitness: 18.47849 stdev: 120.46416
 Best fitness: 281.62141 - size: (27, 33) - species 9 - id 210861
 Average adjusted fitness: 0.371
 Mean genetic distance 2.623, standard deviation 0.760
 Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	40	56	281.6	0.360	0
11	10	89	229.2	0.381	4
12	4	104	262.8	0.373	0

Total extinctions: 0
 Generation time: 15.384 sec (16.023 average)

***** Running generation 921 *****

Population's average fitness: 24.52117 stdev: 123.85658
 Best fitness: 248.75634 - size: (28, 35) - species 9 - id 211918
 Average adjusted fitness: 0.397
 Mean genetic distance 2.661, standard deviation 0.741
 Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	41	87	248.8	0.374	1
11	11	84	226.4	0.375	5
12	5	78	231.7	0.441	1

Total extinctions: 0

Generation time: 15.455 sec (15.940 average)

***** Running generation 922 *****

Population's average fitness: 18.56885 stdev: 122.61842
 Best fitness: 239.47439 - size: (28, 37) - species 11 - id 211040
 Average adjusted fitness: 0.425
 Mean genetic distance 2.633, standard deviation 0.747

Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	42	78	218.1	0.375	2
11	12	86	239.5	0.451	6
12	6	85	239.1	0.450	2

Total extinctions: 0

Generation time: 15.326 sec (15.742 average)

***** Running generation 923 *****

Population's average fitness: 31.71869 stdev: 126.48398
 Best fitness: 254.79306 - size: (27, 32) - species 9 - id 212179
 Average adjusted fitness: 0.444
 Mean genetic distance 2.530, standard deviation 0.778

Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	43	82	254.8	0.440	3
11	13	87	240.7	0.468	7
12	7	80	234.5	0.423	3

Total extinctions: 0

Generation time: 15.226 sec (15.735 average)

***** Running generation 924 *****

Population's average fitness: 33.15957 stdev: 122.34621
 Best fitness: 238.59211 - size: (28, 37) - species 11 - id 212334
 Average adjusted fitness: 0.440
 Mean genetic distance 2.573, standard deviation 0.738

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	44	79	235.7	0.425	4
11	14	85	238.6	0.435	8
12	8	86	232.1	0.460	4

Total extinctions: 0

Generation time: 15.919 sec (15.729 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-924

***** Running generation 925 *****

Population's average fitness: 29.15651 stdev: 127.95000
 Best fitness: 265.73988 - size: (26, 30) - species 12 - id 212658
 Average adjusted fitness: 0.408
 Mean genetic distance 2.606, standard deviation 0.727

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	45	83	260.0	0.407	5
11	15	84	240.7	0.401	9

12 9 83 265.7 0.416 0
 Total extinctions: 0
 Generation time: 17.754 sec (15.925 average)

***** Running generation 926 *****

Population's average fitness: 29.01722 stdev: 127.90100
 Best fitness: 253.38967 - size: (28, 37) - species 11 - id 211040
 Average adjusted fitness: 0.478
 Mean genetic distance 2.601, standard deviation 0.736
 Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	46	76	238.8	0.440	6
11	16	91	253.4	0.567	0
12	10	83	228.8	0.428	1

Total extinctions: 0
 Generation time: 17.701 sec (16.015 average)

***** Running generation 927 *****

Population's average fitness: 24.48019 stdev: 126.76464
 Best fitness: 255.52234 - size: (28, 35) - species 9 - id 212580
 Average adjusted fitness: 0.406
 Mean genetic distance 2.620, standard deviation 0.700
 Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	47	105	255.5	0.315	7
11	17	94	253.4	0.476	1
12	11	50	253.1	0.427	2

Total extinctions: 0
 Generation time: 18.029 sec (16.302 average)

***** Running generation 928 *****

Population's average fitness: 31.70112 stdev: 125.16662
 Best fitness: 247.59019 - size: (28, 36) - species 11 - id 213370
 Average adjusted fitness: 0.469
 Mean genetic distance 2.660, standard deviation 0.765
 Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	48	68	225.2	0.455	8
11	18	96	247.6	0.553	2
12	12	85	229.9	0.398	3

Total extinctions: 0
 Generation time: 17.738 sec (16.474 average)

***** Running generation 929 *****

Population's average fitness: 20.63997 stdev: 123.89007
 Best fitness: 247.87755 - size: (27, 33) - species 11 - id 212499
 Average adjusted fitness: 0.407
 Mean genetic distance 2.657, standard deviation 0.741
 Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	49	73	218.2	0.379	9
11	19	95	247.9	0.459	3

12 13 82 242.5 0.383 4
 Total extinctions: 0
 Generation time: 14.928 sec (16.346 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-929

***** Running generation 930 *****

Population's average fitness: 20.00148 stdev: 121.58555
 Best fitness: 238.45316 - size: (28, 37) - species 9 - id 212707
 Average adjusted fitness: 0.427
 Mean genetic distance 2.622, standard deviation 0.777
 Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	50	83	238.5	0.397	10
11	20	94	232.0	0.480	4
12	14	72	229.1	0.404	5

Total extinctions: 0
 Generation time: 15.925 sec (16.400 average)

***** Running generation 931 *****

Population's average fitness: 32.15849 stdev: 125.82152
 Best fitness: 243.85793 - size: (28, 38) - species 11 - id 213391
 Average adjusted fitness: 0.428
 Mean genetic distance 2.631, standard deviation 0.839
 Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	51	87	231.1	0.409	11
11	21	95	243.9	0.496	5
12	15	67	222.4	0.380	6

Total extinctions: 0
 Generation time: 15.944 sec (16.449 average)

***** Running generation 932 *****

Population's average fitness: 41.23962 stdev: 126.57994
 Best fitness: 256.57955 - size: (29, 34) - species 11 - id 214029
 Average adjusted fitness: 0.487
 Mean genetic distance 2.613, standard deviation 0.810
 Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	52	91	237.2	0.447	12
11	22	92	256.6	0.518	0
12	16	67	229.0	0.496	7

Total extinctions: 0
 Generation time: 16.848 sec (16.601 average)

***** Running generation 933 *****

Population's average fitness: 38.79906 stdev: 129.72958
 Best fitness: 256.12698 - size: (29, 39) - species 11 - id 214528
 Average adjusted fitness: 0.440
 Mean genetic distance 2.654, standard deviation 0.810
 Population of 251 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	52	91	237.2	0.447	12
11	22	92	256.6	0.518	0
12	16	67	229.0	0.496	7

9	53	92	253.6	0.425	13
11	23	91	256.1	0.471	1
12	17	68	245.8	0.424	8

Total extinctions: 0

Generation time: 16.222 sec (16.701 average)

***** Running generation 934 *****

Population's average fitness: 23.87237 stdev: 125.42861

Best fitness: 262.28636 - size: (29, 39) - species 9 - id 214694

Average adjusted fitness: 0.478

Mean genetic distance 2.694, standard deviation 0.718

Population of 251 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	54	78	262.3	0.443	14
11	24	89	251.4	0.497	2
12	18	84	242.2	0.492	9

Total extinctions: 0

Generation time: 15.886 sec (16.697 average)

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walker_Run1\neat-checkpoint-934

***** Running generation 935 *****

Population's average fitness: 28.50368 stdev: 128.45961

Best fitness: 250.64705 - size: (29, 39) - species 12 - id 214802

Average adjusted fitness: 0.430

Mean genetic distance 2.642, standard deviation 0.736

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	55	73	227.8	0.384	15
11	25	85	242.1	0.415	3
12	19	92	250.6	0.490	10

Total extinctions: 0

Generation time: 16.270 sec (16.549 average)

***** Running generation 936 *****

Population's average fitness: 34.55435 stdev: 121.85394

Best fitness: 245.52104 - size: (29, 40) - species 11 - id 215119

Average adjusted fitness: 0.459

Mean genetic distance 2.722, standard deviation 0.709

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
9	56	76	229.9	0.434	16
11	26	86	245.5	0.482	4
12	20	88	231.6	0.461	11

Total extinctions: 0

Generation time: 16.716 sec (16.451 average)

***** Running generation 937 *****

Population's average fitness: 5.04943 stdev: 123.85645

Best fitness: 233.61421 - size: (29, 40) - species 11 - id 215420

Average adjusted fitness: 0.368

Mean genetic distance 2.716, standard deviation 0.724

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
9	57	77	212.4	0.322	17
11	27	87	233.6	0.389	5
12	21	86	232.4	0.392	12

Total extinctions: 0

Generation time: 14.108 sec (16.059 average)

***** Running generation 938 *****

Population's average fitness: 39.37796 stdev: 126.96732

Best fitness: 249.39295 - size: (27, 36) - species 12 - id 215555

Average adjusted fitness: 0.476

Mean genetic distance 2.726, standard deviation 0.766

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
9	58	79	222.0	0.463	18
11	28	82	230.8	0.439	6
12	22	89	249.4	0.525	13

Total extinctions: 0

Generation time: 16.509 sec (15.936 average)

***** Running generation 939 *****

Population's average fitness: 33.31851 stdev: 126.48011

Best fitness: 243.65805 - size: (28, 32) - species 12 - id 215816

Average adjusted fitness: 0.433

Mean genetic distance 2.696, standard deviation 0.812

Population of 251 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
9	59	83	221.9	0.442	19
11	29	83	239.4	0.428	7
12	23	85	243.7	0.428	14

Total extinctions: 0

Generation time: 16.443 sec (16.087 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-939

***** Running generation 940 *****

Population's average fitness: 26.03837 stdev: 123.02086

Best fitness: 252.58626 - size: (28, 39) - species 9 - id 215959

Average adjusted fitness: 0.432

Mean genetic distance 2.699, standard deviation 0.807

Population of 251 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
9	60	80	252.6	0.410	20
11	30	80	232.4	0.395	8
12	24	91	245.2	0.489	15

Total extinctions: 0

Generation time: 15.866 sec (16.081 average)

***** Running generation 941 *****

Population's average fitness: 20.06914 stdev: 127.13529

Best fitness: 254.73854 - size: (28, 30) - species 12 - id 216080

Average adjusted fitness: 0.438

Mean genetic distance 2.701, standard deviation 0.795

Population of 251 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
9	61	79	240.8	0.405	21
11	31	82	233.1	0.440	9
12	25	90	254.7	0.468	16

Total extinctions: 0

Generation time: 15.860 sec (16.073 average)

***** Running generation 942 *****

Population's average fitness: 21.56276 stdev: 125.84022

Best fitness: 236.90264 - size: (27, 30) - species 9 - id 216305

Average adjusted fitness: 0.443

Mean genetic distance 2.680, standard deviation 0.757

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
9	62	59	236.9	0.416	22
11	32	86	217.4	0.476	10
12	26	105	232.2	0.436	17

Total extinctions: 0

Generation time: 15.786 sec (15.967 average)

***** Running generation 943 *****

Population's average fitness: 19.92650 stdev: 129.60235

Best fitness: 251.75586 - size: (26, 29) - species 9 - id 216766

Average adjusted fitness: 0.390

Mean genetic distance 2.703, standard deviation 0.733

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
9	63	80	251.8	0.389	23
11	33	82	230.9	0.366	11
12	27	88	248.9	0.415	18

Total extinctions: 0

Generation time: 14.349 sec (15.779 average)

***** Running generation 944 *****

Population's average fitness: 22.09618 stdev: 128.62537

Best fitness: 261.57411 - size: (30, 44) - species 11 - id 216568

Species 9 with 80 members is stagnated: removing it

Average adjusted fitness: 0.406

Mean genetic distance 2.723, standard deviation 0.876

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
11	34	115	261.6	0.363	0
12	28	135	253.0	0.449	19

Total extinctions: 0

Generation time: 15.518 sec (15.742 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-944

***** Running generation 945 *****

Population's average fitness: 23.96861 stdev: 123.16401
 Best fitness: 252.04021 - size: (27, 33) - species 12 - id 217068
 Average adjusted fitness: 0.407
 Mean genetic distance 2.621, standard deviation 0.947
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	35	122	244.4	0.418	1
12	29	128	252.0	0.396	20

Total extinctions: 0
 Generation time: 16.443 sec (15.760 average)

***** Running generation 946 *****

Population's average fitness: 9.36470 stdev: 123.74231
 Best fitness: 254.70226 - size: (30, 42) - species 11 - id 216783
 Average adjusted fitness: 0.417
 Mean genetic distance 2.560, standard deviation 0.919
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	36	124	254.7	0.422	2
12	30	126	253.1	0.413	21

Total extinctions: 0
 Generation time: 15.506 sec (15.639 average)

***** Running generation 947 *****

Population's average fitness: 21.42210 stdev: 125.14964
 Best fitness: 252.77573 - size: (27, 33) - species 12 - id 217527
 Average adjusted fitness: 0.394
 Mean genetic distance 2.635, standard deviation 0.885
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	37	128	249.6	0.415	3
12	31	122	252.8	0.374	22

Total extinctions: 0
 Generation time: 15.706 sec (15.798 average)

***** Running generation 948 *****

Population's average fitness: 20.85688 stdev: 128.74771
 Best fitness: 271.96320 - size: (29, 34) - species 12 - id 216672
 Average adjusted fitness: 0.430
 Mean genetic distance 2.636, standard deviation 0.870
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	38	121	240.3	0.395	4
12	32	129	272.0	0.466	0

Total extinctions: 0
 Generation time: 15.216 sec (15.669 average)

***** Running generation 949 *****

Population's average fitness: 37.97495 stdev: 124.08853
 Best fitness: 235.61980 - size: (28, 39) - species 11 - id 217238
 Average adjusted fitness: 0.484
 Mean genetic distance 2.606, standard deviation 0.869

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	39	123	235.6	0.485	5
12	33	127	233.7	0.484	1

Total extinctions: 0

Generation time: 16.477 sec (15.673 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-949

***** Running generation 950 *****

Population's average fitness: 23.33294 stdev: 126.81762

Best fitness: 247.60192 - size: (28, 41) - species 11 - id 218283

Average adjusted fitness: 0.404

Mean genetic distance 2.656, standard deviation 0.852

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	40	125	247.6	0.413	6
12	34	125	242.6	0.394	2

Total extinctions: 0

Generation time: 15.346 sec (15.621 average)

***** Running generation 951 *****

Population's average fitness: 27.10534 stdev: 124.36946

Best fitness: 260.14726 - size: (29, 38) - species 11 - id 218605

Average adjusted fitness: 0.415

Mean genetic distance 2.638, standard deviation 0.863

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	41	127	260.1	0.427	7
12	35	123	234.3	0.404	3

Total extinctions: 0

Generation time: 16.205 sec (15.655 average)

***** Running generation 952 *****

Population's average fitness: 19.78871 stdev: 124.99379

Best fitness: 250.86950 - size: (27, 34) - species 12 - id 218660

Average adjusted fitness: 0.426

Mean genetic distance 2.648, standard deviation 0.862

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	42	126	238.7	0.425	8
12	36	124	250.9	0.427	4

Total extinctions: 0

Generation time: 15.741 sec (15.651 average)

***** Running generation 953 *****

Population's average fitness: 27.16471 stdev: 130.97355

Best fitness: 245.33716 - size: (30, 37) - species 12 - id 219046

Average adjusted fitness: 0.484

Mean genetic distance 2.678, standard deviation 0.852

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
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====	===	====	=====	=====	=====
11	43	127	233.3	0.495	9
12	37	123	245.3	0.473	5

Total extinctions: 0

Generation time: 15.762 sec (15.792 average)

***** Running generation 954 *****

Population's average fitness: 0.78800 stdev: 122.72408

Best fitness: 242.85161 - size: (28, 33) - species 12 - id 219237

Average adjusted fitness: 0.391

Mean genetic distance 2.660, standard deviation 0.836

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	=====
11	44	122	242.7	0.365	10
12	38	128	242.9	0.417	6

Total extinctions: 0

Generation time: 14.814 sec (15.722 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-954

***** Running generation 955 *****

Population's average fitness: 20.07707 stdev: 122.18420

Best fitness: 237.78945 - size: (28, 39) - species 11 - id 217238

Average adjusted fitness: 0.427

Mean genetic distance 2.664, standard deviation 0.862

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	=====
11	45	118	237.8	0.390	11
12	39	132	230.9	0.464	7

Total extinctions: 0

Generation time: 15.747 sec (15.652 average)

***** Running generation 956 *****

Population's average fitness: 13.74631 stdev: 123.10468

Best fitness: 234.23072 - size: (27, 33) - species 12 - id 219577

Average adjusted fitness: 0.438

Mean genetic distance 2.676, standard deviation 0.891

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	=====
11	46	117	224.3	0.412	12
12	40	133	234.2	0.464	8

Total extinctions: 0

Generation time: 15.258 sec (15.627 average)

***** Running generation 957 *****

Population's average fitness: 8.80778 stdev: 120.92529

Best fitness: 241.97280 - size: (27, 32) - species 12 - id 219893

Average adjusted fitness: 0.376

Mean genetic distance 2.732, standard deviation 0.852

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	=====
11	47	122	226.4	0.384	13

12 41 128 242.0 0.368 9
 Total extinctions: 0
 Generation time: 15.063 sec (15.563 average)

***** Running generation 958 *****

Population's average fitness: 0.07834 stdev: 120.07419
 Best fitness: 250.29552 - size: (27, 33) - species 12 - id 220123
 Average adjusted fitness: 0.362
 Mean genetic distance 2.640, standard deviation 0.878
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	48	123	240.6	0.357	14
12	42	127	250.3	0.367	10

Total extinctions: 0
 Generation time: 14.149 sec (15.456 average)

***** Running generation 959 *****

Population's average fitness: 23.37707 stdev: 126.58646
 Best fitness: 244.58706 - size: (31, 41) - species 12 - id 219895
 Average adjusted fitness: 0.434
 Mean genetic distance 2.553, standard deviation 0.946
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	49	125	235.6	0.442	15
12	43	125	244.6	0.427	11

Total extinctions: 0
 Generation time: 15.512 sec (15.360 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-959

***** Running generation 960 *****

Population's average fitness: 47.37898 stdev: 123.78964
 Best fitness: 250.95463 - size: (28, 39) - species 11 - id 217238
 Average adjusted fitness: 0.491
 Mean genetic distance 2.549, standard deviation 0.939
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	50	127	251.0	0.504	16
12	44	123	229.4	0.478	12

Total extinctions: 0
 Generation time: 17.368 sec (15.562 average)

***** Running generation 961 *****

Population's average fitness: 15.08529 stdev: 126.33999
 Best fitness: 251.66917 - size: (26, 38) - species 11 - id 220826
 Average adjusted fitness: 0.416
 Mean genetic distance 2.753, standard deviation 0.847
 Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
11	51	131	251.7	0.452	17
12	45	99	239.7	0.380	13
13	0	20	--	--	0

Total extinctions: 0
 Generation time: 14.438 sec (15.385 average)

***** Running generation 962 *****

Population's average fitness: 12.46396 stdev: 123.66994
 Best fitness: 256.40575 - size: (28, 35) - species 12 - id 220993
 Average adjusted fitness: 0.355
 Mean genetic distance 2.851, standard deviation 0.764
 Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
11	52	117	224.0	0.442	18
12	46	52	256.4	0.388	14
13	1	81	133.1	0.236	0

Total extinctions: 0
 Generation time: 15.600 sec (15.371 average)

***** Running generation 963 *****

Population's average fitness: 11.38269 stdev: 123.15857
 Best fitness: 256.64297 - size: (30, 40) - species 12 - id 220943
 Average adjusted fitness: 0.464
 Mean genetic distance 2.739, standard deviation 0.775
 Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
11	53	100	241.0	0.465	19
12	47	83	256.6	0.500	15
13	2	67	248.5	0.428	0

Total extinctions: 0
 Generation time: 15.339 sec (15.329 average)

***** Running generation 964 *****

Population's average fitness: 21.94687 stdev: 123.21957
 Best fitness: 250.47226 - size: (28, 38) - species 11 - id 221404
 Average adjusted fitness: 0.484
 Mean genetic distance 2.704, standard deviation 0.779
 Population of 251 members in 3 species:

ID	age	size	fitness	adj fit	stag
11	54	96	250.5	0.530	20
12	48	72	223.3	0.505	16
13	3	83	208.3	0.419	1

Total extinctions: 0
 Generation time: 15.561 sec (15.404 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-964

***** Running generation 965 *****

Population's average fitness: 19.04835 stdev: 121.99896
 Best fitness: 234.81095 - size: (28, 28) - species 12 - id 221003
 Average adjusted fitness: 0.490
 Mean genetic distance 2.708, standard deviation 0.791
 Population of 251 members in 3 species:

ID	age	size	fitness	adj fit	stag
11	55	95	229.6	0.549	21

12	49	78	234.8	0.490	17
13	4	78	188.8	0.430	2

Total extinctions: 0

Generation time: 15.675 sec (15.396 average)

***** Running generation 966 *****

Population's average fitness: 34.42136 stdev: 124.62830

Best fitness: 233.87126 - size: (28, 37) - species 11 - id 221183

Average adjusted fitness: 0.567

Mean genetic distance 2.745, standard deviation 0.824

Population of 251 members in 3 species:

ID	age	size	fitness	adj fit	stag
11	56	92	233.9	0.607	22
12	50	80	226.2	0.543	18
13	5	79	225.8	0.551	3

Total extinctions: 0

Generation time: 16.419 sec (15.512 average)

***** Running generation 967 *****

Population's average fitness: 17.23924 stdev: 118.79808

Best fitness: 226.33151 - size: (27, 34) - species 13 - id 221860

Average adjusted fitness: 0.463

Mean genetic distance 2.750, standard deviation 0.765

Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
11	57	90	224.1	0.494	23
12	51	81	210.3	0.459	19
13	6	78	226.3	0.436	4

Total extinctions: 0

Generation time: 15.972 sec (15.603 average)

***** Running generation 968 *****

Population's average fitness: 13.41553 stdev: 119.69382

Best fitness: 235.94333 - size: (30, 35) - species 12 - id 222248

Average adjusted fitness: 0.428

Mean genetic distance 2.776, standard deviation 0.710

Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
11	58	88	226.4	0.442	24
12	52	79	235.9	0.399	20
13	7	82	202.6	0.443	5

Total extinctions: 0

Generation time: 14.928 sec (15.681 average)

***** Running generation 969 *****

Population's average fitness: 22.87426 stdev: 124.36291

Best fitness: 247.69679 - size: (28, 39) - species 11 - id 221946

Average adjusted fitness: 0.450

Mean genetic distance 2.794, standard deviation 0.704

Population of 249 members in 3 species:

ID	age	size	fitness	adj fit	stag
11	59	87	247.7	0.466	25

12	53	77	242.1	0.409	21
13	8	85	208.5	0.475	6

Total extinctions: 0

Generation time: 15.712 sec (15.701 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-969

***** Running generation 970 *****

Population's average fitness: 18.97156 stdev: 123.45580

Best fitness: 256.34623 - size: (28, 39) - species 11 - id 222831

Species 12 with 77 members is stagnated: removing it

Average adjusted fitness: 0.417

Mean genetic distance 2.717, standard deviation 0.874

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	60	127	256.3	0.424	26
13	9	123	236.5	0.409	7

Total extinctions: 0

Generation time: 15.145 sec (15.479 average)

***** Running generation 971 *****

Population's average fitness: 36.72344 stdev: 124.11248

Best fitness: 234.77858 - size: (27, 31) - species 13 - id 222721

Average adjusted fitness: 0.487

Mean genetic distance 2.736, standard deviation 0.838

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	61	122	232.8	0.456	27
13	10	128	234.8	0.518	8

Total extinctions: 0

Generation time: 15.897 sec (15.625 average)

***** Running generation 972 *****

Population's average fitness: 42.75828 stdev: 125.06612

Best fitness: 237.63943 - size: (28, 34) - species 13 - id 221811

Average adjusted fitness: 0.471

Mean genetic distance 2.734, standard deviation 0.838

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	62	119	236.9	0.437	28
13	11	131	237.6	0.505	9

Total extinctions: 0

Generation time: 16.425 sec (15.707 average)

***** Running generation 973 *****

Population's average fitness: 31.80397 stdev: 123.07235

Best fitness: 253.15478 - size: (29, 44) - species 11 - id 223417

Average adjusted fitness: 0.487

Mean genetic distance 2.706, standard deviation 0.846

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	62	119	236.9	0.437	28
13	11	131	237.6	0.505	9

11	63	118	253.2	0.460	29
13	12	132	248.0	0.514	10

Total extinctions: 0

Generation time: 18.430 sec (16.016 average)

***** Running generation 974 *****

Population's average fitness: 21.20484 stdev: 123.26753

Best fitness: 252.19656 - size: (29, 37) - species 11 - id 223144

Average adjusted fitness: 0.406

Mean genetic distance 2.730, standard deviation 0.814

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	64	115	252.2	0.364	30
13	13	135	245.3	0.448	11

Total extinctions: 0

Generation time: 16.723 sec (16.133 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-974

***** Running generation 975 *****

Population's average fitness: 22.93545 stdev: 122.29214

Best fitness: 248.68053 - size: (28, 33) - species 13 - id 223822

Average adjusted fitness: 0.431

Mean genetic distance 2.724, standard deviation 0.834

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	65	116	241.9	0.400	31
13	14	134	248.7	0.463	0

Total extinctions: 0

Generation time: 15.956 sec (16.161 average)

***** Running generation 976 *****

Population's average fitness: 20.19541 stdev: 122.20495

Best fitness: 254.66096 - size: (27, 42) - species 11 - id 223750

Average adjusted fitness: 0.425

Mean genetic distance 2.720, standard deviation 0.823

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	66	123	254.7	0.440	32
13	15	127	242.1	0.410	1

Total extinctions: 0

Generation time: 16.299 sec (16.149 average)

***** Running generation 977 *****

Population's average fitness: 32.19440 stdev: 120.70442

Best fitness: 242.20645 - size: (27, 34) - species 11 - id 224426

Average adjusted fitness: 0.497

Mean genetic distance 2.816, standard deviation 0.801

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	67	128	242.2	0.527	33
13	16	122	238.2	0.467	2

Total extinctions: 0
 Generation time: 17.342 sec (16.286 average)

***** Running generation 978 *****

Population's average fitness: 28.85666 stdev: 124.12507
 Best fitness: 238.81296 - size: (27, 31) - species 13 - id 223260
 Average adjusted fitness: 0.459
 Mean genetic distance 2.870, standard deviation 0.770
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	68	129	227.8	0.474	34
13	17	121	238.8	0.445	3

Total extinctions: 0
 Generation time: 16.618 sec (16.455 average)

***** Running generation 979 *****

Population's average fitness: 34.51056 stdev: 124.04329
 Best fitness: 269.85706 - size: (25, 28) - species 13 - id 224948
 Average adjusted fitness: 0.445
 Mean genetic distance 2.757, standard deviation 0.797
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	69	125	246.5	0.434	35
13	18	125	269.9	0.457	0

Total extinctions: 0
 Generation time: 17.171 sec (16.601 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-979

***** Running generation 980 *****

Population's average fitness: 28.04314 stdev: 124.80077
 Best fitness: 255.11328 - size: (26, 27) - species 13 - id 225166
 Average adjusted fitness: 0.405
 Mean genetic distance 2.826, standard deviation 0.740
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	70	127	229.6	0.417	36
13	19	123	255.1	0.393	1

Total extinctions: 0
 Generation time: 15.978 sec (16.684 average)

***** Running generation 981 *****

Population's average fitness: 35.75586 stdev: 121.20648
 Best fitness: 243.02119 - size: (29, 45) - species 11 - id 225199
 Average adjusted fitness: 0.475
 Mean genetic distance 2.841, standard deviation 0.726
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	71	126	243.0	0.475	37
13	20	124	237.2	0.475	2

Total extinctions: 0
 Generation time: 17.467 sec (16.841 average)

***** Running generation 982 *****

Population's average fitness: 19.58531 stdev: 124.90711
 Best fitness: 242.48627 - size: (29, 38) - species 13 - id 225379
 Average adjusted fitness: 0.467
 Mean genetic distance 2.858, standard deviation 0.690
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	72	129	235.1	0.492	38
13	21	121	242.5	0.443	3

Total extinctions: 0
 Generation time: 15.743 sec (16.773 average)

***** Running generation 983 *****

Population's average fitness: 24.53348 stdev: 124.09063
 Best fitness: 243.00880 - size: (29, 48) - species 11 - id 225197
 Average adjusted fitness: 0.464
 Mean genetic distance 2.807, standard deviation 0.791
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	73	128	243.0	0.477	39
13	22	122	217.0	0.450	4

Total extinctions: 0
 Generation time: 16.204 sec (16.550 average)

***** Running generation 984 *****

Population's average fitness: 47.00654 stdev: 117.10634
 Best fitness: 254.84141 - size: (28, 46) - species 11 - id 226057
 Average adjusted fitness: 0.473
 Mean genetic distance 2.797, standard deviation 0.803
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	74	127	254.8	0.482	40
13	23	123	242.5	0.463	5

Total extinctions: 0
 Generation time: 18.537 sec (16.731 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-984

***** Running generation 985 *****

Population's average fitness: 36.19898 stdev: 126.13833
 Best fitness: 240.32499 - size: (29, 44) - species 11 - id 226279
 Average adjusted fitness: 0.473
 Mean genetic distance 2.808, standard deviation 0.777
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	75	128	240.3	0.485	41
13	24	122	225.2	0.460	6

Total extinctions: 0
 Generation time: 17.039 sec (16.840 average)

***** Running generation 986 *****

Population's average fitness: 48.77785 stdev: 128.00314
 Best fitness: 241.05207 - size: (29, 37) - species 13 - id 225982
 Average adjusted fitness: 0.572
 Mean genetic distance 2.807, standard deviation 0.791
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	76	127	231.8	0.576	42
13	25	123	241.1	0.569	7

Total extinctions: 0
 Generation time: 18.069 sec (17.017 average)

***** Running generation 987 *****

Population's average fitness: 33.09427 stdev: 126.81355
 Best fitness: 241.05119 - size: (29, 37) - species 13 - id 225982
 Average adjusted fitness: 0.447
 Mean genetic distance 2.819, standard deviation 0.787
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	77	125	240.6	0.443	43
13	26	125	241.1	0.450	8

Total extinctions: 0
 Generation time: 16.643 sec (16.947 average)

***** Running generation 988 *****

Population's average fitness: 35.11064 stdev: 120.82932
 Best fitness: 239.50036 - size: (29, 38) - species 13 - id 226728
 Average adjusted fitness: 0.440
 Mean genetic distance 2.883, standard deviation 0.705
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	78	118	227.7	0.388	44
13	27	132	239.5	0.492	9

Total extinctions: 0
 Generation time: 17.737 sec (17.059 average)

***** Running generation 989 *****

Population's average fitness: 23.87825 stdev: 122.22391
 Best fitness: 239.23111 - size: (27, 36) - species 13 - id 227150
 Average adjusted fitness: 0.454
 Mean genetic distance 2.901, standard deviation 0.699
 Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
11	79	123	236.9	0.468	45
13	28	127	239.2	0.440	10

Total extinctions: 0
 Generation time: 17.194 sec (17.061 average)
 Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
 walker_Run1\neat-checkpoint-989

***** Running generation 990 *****

Population's average fitness: 27.13100 stdev: 125.91846

Best fitness: 236.66332 - size: (25, 27) - species 13 - id 226949

Average adjusted fitness: 0.470

Mean genetic distance 2.929, standard deviation 0.792

Population of 250 members in 3 species:

ID	age	size	fitness	adj fit	stag
11	80	57	230.3	0.454	46
13	29	128	236.7	0.485	11
14	0	65	--	--	0

Total extinctions: 0

Generation time: 18.442 sec (17.308 average)

***** Running generation 991 *****

Population's average fitness: 20.09687 stdev: 115.89714

Best fitness: 249.36732 - size: (29, 47) - species 14 - id 227077

Species 11 with 57 members is stagnated: removing it

Average adjusted fitness: 0.469

Mean genetic distance 2.784, standard deviation 0.943

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
13	30	140	246.0	0.451	12
14	1	110	249.4	0.486	0

Total extinctions: 0

Generation time: 16.377 sec (17.199 average)

***** Running generation 992 *****

Population's average fitness: 48.14738 stdev: 123.99265

Best fitness: 260.67116 - size: (29, 47) - species 14 - id 227935

Average adjusted fitness: 0.466

Mean genetic distance 2.684, standard deviation 0.895

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
13	31	132	235.3	0.459	13
14	2	118	260.7	0.474	0

Total extinctions: 0

Generation time: 18.847 sec (17.509 average)

***** Running generation 993 *****

Population's average fitness: 46.47502 stdev: 123.25031

Best fitness: 240.54217 - size: (29, 46) - species 14 - id 227866

Average adjusted fitness: 0.472

Mean genetic distance 2.678, standard deviation 0.854

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
13	32	123	229.1	0.434	14
14	3	127	240.5	0.510	1

Total extinctions: 0

Generation time: 19.414 sec (17.830 average)

***** Running generation 994 *****

Population's average fitness: 25.23078 stdev: 122.40714

Best fitness: 235.66906 - size: (28, 37) - species 14 - id 228411

Average adjusted fitness: 0.474

Mean genetic distance 2.737, standard deviation 0.848

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
13	33	124	225.3	0.469	15
14	4	126	235.7	0.478	2

Total extinctions: 0

Generation time: 17.633 sec (17.740 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-994

***** Running generation 995 *****

Population's average fitness: 38.81245 stdev: 118.36482

Best fitness: 234.53031 - size: (28, 37) - species 14 - id 228539

Average adjusted fitness: 0.461

Mean genetic distance 2.818, standard deviation 0.821

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
13	34	127	223.9	0.478	16
14	5	123	234.5	0.445	3

Total extinctions: 0

Generation time: 17.814 sec (17.817 average)

***** Running generation 996 *****

Population's average fitness: 31.42577 stdev: 126.21586

Best fitness: 227.33138 - size: (29, 44) - species 14 - id 228775

Average adjusted fitness: 0.451

Mean genetic distance 2.799, standard deviation 0.831

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
13	35	124	223.9	0.438	17
14	6	126	227.3	0.463	4

Total extinctions: 0

Generation time: 16.209 sec (17.631 average)

***** Running generation 997 *****

Population's average fitness: 41.12550 stdev: 124.64238

Best fitness: 254.87269 - size: (30, 48) - species 14 - id 227928

Average adjusted fitness: 0.447

Mean genetic distance 2.790, standard deviation 0.821

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
13	36	126	245.7	0.460	18
14	7	124	254.9	0.433	5

Total extinctions: 0

Generation time: 17.745 sec (17.741 average)

***** Running generation 998 *****

Population's average fitness: 32.40233 stdev: 125.44091

Best fitness: 255.28176 - size: (30, 48) - species 14 - id 229075

Average adjusted fitness: 0.418

Mean genetic distance 2.788, standard deviation 0.825

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
13	37	125	244.0	0.419	19
14	8	125	255.3	0.416	6

Total extinctions: 0

Generation time: 17.619 sec (17.729 average)

***** Running generation 999 *****

Population's average fitness: 50.59409 stdev: 124.03692

Best fitness: 260.18081 - size: (28, 41) - species 14 - id 229462

Average adjusted fitness: 0.462

Mean genetic distance 2.767, standard deviation 0.864

Population of 250 members in 2 species:

ID	age	size	fitness	adj fit	stag
====	===	====	=====	=====	====
13	38	120	243.0	0.429	20
14	9	130	260.2	0.496	7

Total extinctions: 0

Generation time: 18.119 sec (17.822 average)

Saving checkpoint to d:\Python Workspace\BA Neat\NEAT CheckPoints\NEATPointsMulti
walker_Run1\neat-checkpoint-999

Der Test hat 16208.28 Sekunden benötigt.

Der Test hat 1000 Generation gedauert

Statistiken wurden in d:/Python Workspace/BA Neat/Excel Results/Exp2_NeatRun1_stats.xlsx gespeichert.