



52 i: 24.0 l\_i: 3.0 p\_i: 0.0 al\_i: 63.0 sol\_a\_i: 63.0 sol\_g\_i: 0.0 d\_i: 68.0 sol\_taoi: 63.0 sol\_deltai: 69.0 sol\_deltai - sol\_taoi: 6.0  
sol\_taoP: 63.0 sol\_deltaP: 66.0 sol\_deltaP - sol\_taoP: 3.0 cl\_i: 1581864.0 sol\_c\_i: 1581864.0 sol\_gp\_i: 0.0 total work: 1581864.0 wasted work  
: 0.0

53 i: 25.0 l\_i: 5.0 p\_i: 14.0 al\_i: 15.0 sol\_a\_i: 15.0 sol\_g\_i: 0.0 d\_i: 20.0 sol\_taoi: 15.0 sol\_deltai: 17.0 sol\_deltai - sol\_taoi: 2.0  
sol\_taoP: 15.0 sol\_deltaP: 16.0 sol\_deltaP - sol\_taoP: 1.0 cl\_i: 527288.0 sol\_c\_i: 527288.0 sol\_gp\_i: 0.0 total work: 527288.0 wasted work: 0.0

54 i: 26.0 l\_i: 3.0 p\_i: 16.0 al\_i: 43.0 sol\_a\_i: 43.0 sol\_g\_i: 0.0 d\_i: 47.0 sol\_taoi: 43.0 sol\_deltai: 45.0 sol\_deltai - sol\_taoi: 2.0  
sol\_taoP: 43.0 sol\_deltaP: 44.0 sol\_deltaP - sol\_taoP: 1.0 cl\_i: 527288.0 sol\_c\_i: 527288.0 sol\_gp\_i: 0.0 total work: 527288.0 wasted work: 0.0

55 i: 27.0 l\_i: 5.0 p\_i: 0.0 al\_i: 1.0 sol\_a\_i: 1.0 sol\_g\_i: 0.0 d\_i: 4.0 sol\_taoi: 1.0 sol\_deltai: 3.0 sol\_deltai - sol\_taoi: 2.0 sol\_taoP: 1.  
0 sol\_deltaP: 2.0 sol\_deltaP - sol\_taoP: 1.0 cl\_i: 527288.0 sol\_c\_i: 527288.0 sol\_gp\_i: 0.0 total work: 527288.0 wasted work: 0.0

56 i: 28.0 l\_i: 4.0 p\_i: 12.0 al\_i: 45.0 sol\_a\_i: 45.0 sol\_g\_i: 0.0 d\_i: 51.0 sol\_taoi: 45.0 sol\_deltai: 50.0 sol\_deltai - sol\_taoi: 5.0  
sol\_taoP: 45.0 sol\_deltaP: 46.0 sol\_deltaP - sol\_taoP: 1.0 cl\_i: 1318220.0 sol\_c\_i: 1318220.0 sol\_gp\_i: 0.0 total work: 1318220.0 wasted work  
: 0.0

57 i: 29.0 l\_i: 4.0 p\_i: 17.0 al\_i: 60.0 sol\_a\_i: 60.0 sol\_g\_i: 0.0 d\_i: 66.0 sol\_taoi: 60.0 sol\_deltai: 63.0 sol\_deltai - sol\_taoi: 3.0  
sol\_taoP: 62.0 sol\_deltaP: 63.0 sol\_deltaP - sol\_taoP: 1.0 cl\_i: 790932.0 sol\_c\_i: 790932.0 sol\_gp\_i: 0.0 total work: 922754.0 wasted work: 0.5

58 i: 30.0 l\_i: 4.0 p\_i: 16.0 al\_i: 46.0 sol\_a\_i: 46.0 sol\_g\_i: 0.0 d\_i: 49.0 sol\_taoi: 46.0 sol\_deltai: 50.0 sol\_deltai - sol\_taoi: 4.0  
sol\_taoP: 46.0 sol\_deltaP: 47.0 sol\_deltaP - sol\_taoP: 1.0 cl\_i: 1054576.0 sol\_c\_i: 1054576.0 sol\_gp\_i: 0.0 total work: 1054576.0 wasted work  
: 0.0

59 i: 31.0 l\_i: 5.0 p\_i: 18.0 al\_i: 0.0 sol\_a\_i: 0.0 sol\_g\_i: 0.0 d\_i: 4.0 sol\_taoi: 0.0 sol\_deltai: 3.0 sol\_deltai - sol\_taoi: 3.0 sol\_taoP:  
0.0 sol\_deltaP: 1.0 sol\_deltaP - sol\_taoP: 1.0 cl\_i: 790932.0 sol\_c\_i: 790932.0 sol\_gp\_i: 0.0 total work: 1581864.0 wasted work: 3.0

60 i: 32.0 l\_i: 5.0 p\_i: 26.0 al\_i: 24.0 sol\_a\_i: 24.0 sol\_g\_i: 0.0 d\_i: 35.0 sol\_taoi: 24.0 sol\_deltai: 33.0 sol\_deltai - sol\_taoi: 9.0  
sol\_taoP: 25.0 sol\_deltaP: 27.0 sol\_deltaP - sol\_taoP: 2.0 cl\_i: 2372796.0 sol\_c\_i: 2372796.0 sol\_gp\_i: 0.0 total work: 2504618.0 wasted work  
: 0.5

61 i: 33.0 l\_i: 4.0 p\_i: 0.0 al\_i: 6.0 sol\_a\_i: 8.0 sol\_g\_i: 0.4 d\_i: 14.0 sol\_taoi: 8.0 sol\_deltai: 15.0 sol\_deltai - sol\_taoi: 7.0 sol\_taoP:  
8.0 sol\_deltaP: 11.0 sol\_deltaP - sol\_taoP: 3.0 cl\_i: 1845508.0 sol\_c\_i: 2478253.6 sol\_gp\_i: 0.4 total work: 2504618.0 wasted work: 0.  
099999999999999964

62 i: 34.0 l\_i: 3.0 p\_i: 6.0 al\_i: 26.0 sol\_a\_i: 27.0 sol\_g\_i: 0.125000000000000713 d\_i: 35.0 sol\_taoi: 27.0 sol\_deltai: 29.0 sol\_deltai -  
sol\_taoi: 2.0 sol\_taoP: 27.0 sol\_deltaP: 28.0 sol\_deltaP - sol\_taoP: 1.0 cl\_i: 527288.0 sol\_c\_i: 922754.0 sol\_gp\_i: 0.375 total work: 922754.0  
wasted work: 0.0

63 i: 35.0 l\_i: 4.0 p\_i: 4.0 al\_i: 8.0 sol\_a\_i: 9.0 sol\_g\_i: 0.1 d\_i: 13.0 sol\_taoi: 9.0 sol\_deltai: 11.0 sol\_deltai - sol\_taoi: 2.0 sol\_taoP:  
9.0 sol\_deltaP: 10.0 sol\_deltaP - sol\_taoP: 1.0 cl\_i: 527288.0 sol\_c\_i: 1318220.0 sol\_gp\_i: 0.75 total work: 1318220.0 wasted work: 0.0

64 i: 36.0 l\_i: 5.0 p\_i: 3.0 al\_i: 53.0 sol\_a\_i: 59.958333333333328 sol\_g\_i: 0.9940476190476115 d\_i: 61.0 sol\_taoi: 60.0 sol\_deltai: 69.0  
sol\_deltai - sol\_taoi: 9.0 sol\_taoP: 60.0 sol\_deltaP: 62.0 sol\_deltaP - sol\_taoP: 2.0 cl\_i: 2372796.0 sol\_c\_i: 2372796.0 sol\_gp\_i: 0.0 total work  
: 2372796.0 wasted work: 0.0

65 i: 37.0 l\_i: 4.0 p\_i: 22.0 al\_i: 17.0 sol\_a\_i: 22.0 sol\_g\_i: 0.7142857142857143 d\_i: 23.0 sol\_taoi: 22.0 sol\_deltai: 29.0 sol\_deltai -  
sol\_taoi: 7.0 sol\_taoP: 22.0 sol\_deltaP: 24.0 sol\_deltaP - sol\_taoP: 2.0 cl\_i: 1845508.0 sol\_c\_i: 2372796.0 sol\_gp\_i: 1.0 total work: 2372796.0  
wasted work: 0.0

66 i: 38.0 l\_i: 6.0 p\_i: 11.0 al\_i: 55.0 sol\_a\_i: 61.0 sol\_g\_i: 1.0 d\_i: 63.0 sol\_taoi: 61.0 sol\_deltai: 69.0 sol\_deltai - sol\_taoi: 8.0  
sol\_taoP: 61.0 sol\_deltaP: 63.0 sol\_deltaP - sol\_taoP: 2.0 cl\_i: 2109152.0 sol\_c\_i: 2768262.0 sol\_gp\_i: 0.5 total work: 2768262.0 wasted work  
: 0.0

67 i: 39.0 l\_i: 6.0 p\_i: 21.0 al\_i: 46.0 sol\_a\_i: 52.0 sol\_g\_i: 0.6666666666666666 d\_i: 54.0 sol\_taoi: 52.0 sol\_deltai: 61.0 sol\_deltai -  
sol\_taoi: 9.0 sol\_taoP: 52.0 sol\_deltaP: 55.0 sol\_deltaP - sol\_taoP: 3.0 cl\_i: 2372796.0 sol\_c\_i: 4429219.199999997 sol\_gp\_i: 0.  
9749999999999999 total work: 4877414.0 wasted work: 1.700000000000001

68 Time: 1108.000000  
69  
70  
71  
72