



51 i: 23.0 l\_i: 3.0 p\_i: 18.0 al\_i: 19.0 sol\_a\_i: 19.0 sol\_g\_i: 0.0 d\_i: 22.0 sol\_taoi: 19.0 sol\_delta: 23.0 sol\_delta - sol\_taoi: 4.0  
sol\_taoP: 19.0 sol\_deltaP: 21.0 sol\_deltaP - sol\_taoP: 2.0 cl\_i: 1054576.0 sol\_c\_i: 1054576.0 sol\_gp\_i: 0.0 total work: 1054576.0 wasted work  
: 0.0

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\_delta: 69.0 sol\_delta - 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: 15.0 al\_i: 15.0 sol\_a\_i: 15.0 sol\_g\_i: 0.0 d\_i: 20.0 sol\_taoi: 15.0 sol\_delta: 17.0 sol\_delta - 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: 1186398.0 wasted work: 2.5

54 i: 26.0 l\_i: 3.0 p\_i: 12.0 al\_i: 43.0 sol\_a\_i: 43.0 sol\_g\_i: 0.0 d\_i: 47.0 sol\_taoi: 43.0 sol\_delta: 45.0 sol\_delta - 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: 7.0 al\_i: 1.0 sol\_a\_i: 1.0 sol\_g\_i: 0.0 d\_i: 4.0 sol\_taoi: 1.0 sol\_delta: 3.0 sol\_delta - 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: 26.0 al\_i: 45.0 sol\_a\_i: 45.0 sol\_g\_i: 0.0 d\_i: 51.0 sol\_taoi: 45.0 sol\_delta: 50.0 sol\_delta - 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: 18.0 al\_i: 60.0 sol\_a\_i: 60.0 sol\_g\_i: 0.0 d\_i: 66.0 sol\_taoi: 60.0 sol\_delta: 63.0 sol\_delta - sol\_taoi: 3.0  
sol\_taoP: 60.0 sol\_deltaP: 61.0 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: 30.0 al\_i: 46.0 sol\_a\_i: 46.0 sol\_g\_i: 0.0 d\_i: 49.0 sol\_taoi: 46.0 sol\_delta: 50.0 sol\_delta - 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: 16.0 al\_i: 0.0 sol\_a\_i: 0.0 sol\_g\_i: 0.0 d\_i: 4.0 sol\_taoi: 0.0 sol\_delta: 3.0 sol\_delta - 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: 18.0 al\_i: 24.0 sol\_a\_i: 24.0 sol\_g\_i: 0.0 d\_i: 35.0 sol\_taoi: 24.0 sol\_delta: 33.0 sol\_delta - 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: 21.0 al\_i: 6.0 sol\_a\_i: 8.714285714285714 sol\_g\_i: 0.5428571428571428 d\_i: 14.0 sol\_taoi: 9.0 sol\_delta: 16.0  
sol\_delta - sol\_taoi: 7.0 sol\_taoP: 9.0 sol\_deltaP: 12.0 sol\_deltaP - sol\_taoP: 3.0 cl\_i: 1845508.0 sol\_c\_i: 2636440.0 sol\_gp\_i: 0.5 total work:  
2636440.0 wasted work: 0.0

62 i: 34.0 l\_i: 3.0 p\_i: 26.0 al\_i: 26.0 sol\_a\_i: 27.0 sol\_g\_i: 0.125 d\_i: 35.0 sol\_taoi: 27.0 sol\_delta: 29.0 sol\_delta - 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: 790932.0 sol\_gp\_i: 0.25 total work: 790932.0 wasted work:  
0.0

63 i: 35.0 l\_i: 4.0 p\_i: 30.0 al\_i: 8.0 sol\_a\_i: 9.0 sol\_g\_i: 0.1 d\_i: 13.0 sol\_taoi: 9.0 sol\_delta: 11.0 sol\_delta - 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: 58.95833333333333 sol\_g\_i: 0.8511904761904754 d\_i: 61.0 sol\_taoi: 59.0 sol\_delta: 68.0  
sol\_delta - sol\_taoi: 9.0 sol\_taoP: 59.0 sol\_deltaP: 62.0 sol\_deltaP - sol\_taoP: 3.0 cl\_i: 2372796.0 sol\_c\_i: 3559194.0 sol\_gp\_i: 0.  
6428571428571429 total work: 3559194.0 wasted work: 0.0

65 i: 37.0 l\_i: 4.0 p\_i: 11.0 al\_i: 17.0 sol\_a\_i: 22.0 sol\_g\_i: 0.7142857142857143 d\_i: 23.0 sol\_taoi: 22.0 sol\_delta: 29.0 sol\_delta -  
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: 2033825.142857143 sol\_gp\_i: 0.  
35714285714285715 total work: 2109152.0 wasted work: 0.2857142857142853

66 i: 38.0 l\_i: 6.0 p\_i: 22.0 al\_i: 55.0 sol\_a\_i: 61.0 sol\_g\_i: 1.0 d\_i: 63.0 sol\_taoi: 61.0 sol\_delta: 69.0 sol\_delta - 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: 28.0 al\_i: 46.0 sol\_a\_i: 52.0 sol\_g\_i: 0.6666666666666666 d\_i: 54.0 sol\_taoi: 52.0 sol\_delta: 61.0 sol\_delta -  
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: 4481948.0 sol\_gp\_i: 1.0 total work: 5272880.0  
wasted work: 3.0

68 Time: 830.000000  
69  
70  
71  
72