

DIMACS 11: Competition Results

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- ▷ experiments performed on cluster at ZIB
- ▷ 32 compute nodes
- ▷ Intel Xeon X5672 3.20GHz (8 cores)
- ▷ 48 GB RAM

- ▷ 2 hours time limit
- ▷ 1 or 8 threads used
- ▷ one job per node
- ▷ solution checker to verify solution feasibility

- ▷ SPG
- ▷ DCST
- ▷ HCDST
- ▷ RPCST
- ▷ PCSPG
- ▷ MWCS
- ▷ STPRBH

- ▷ Quality Challenge
 - ▶ Primal Bound upon termination
- ▷ Pareto Challenge
 - ▶ Primal Integral
- ▷ Gap-based Exact Challenge
 - ▶ primal-dual gap upon termination: $\frac{|pb-db|}{\text{abs}(|pb|,|db|)} \in [0, 1]$
- ▷ Time-based Exact Challenge
 - ▶ time to solve (or time limit)

Definition (primal gap function)

Let \tilde{x} be a solution, \tilde{x}_{opt} be an optimum/best-known solution value, $t_{\text{max}} \in \mathbb{R}_{\geq 0}$ be a timelimit.

Primal gap $\gamma \in [0, 1]$ of \tilde{x} :

$$\gamma(\tilde{x}) := \begin{cases} 0, & \text{if } |c^T \tilde{x}_{\text{opt}}| = |c^T \tilde{x}| = 0, \\ 1, & \text{if } c^T \tilde{x}_{\text{opt}} \cdot c^T \tilde{x} < 0, \\ \frac{|c^T \tilde{x}_{\text{opt}} - c^T \tilde{x}|}{\max\{|c^T \tilde{x}_{\text{opt}}|, |c^T \tilde{x}|\}}, & \text{otherwise.} \end{cases}$$

Primal gap function $\rho: [0, t_{\text{max}}] \mapsto [0, 1]$:

$$\rho(t) := \begin{cases} 1, & \text{if no incumbent until point } t, \\ \gamma(\tilde{x}(t)), & \text{else, with } \tilde{x}(t) \text{ incumbent at point } t. \end{cases}$$

- ▷ step function, changes at points t_i when new incumbent found
- ▷ $p(0) = 1$, $p(t) = 0$ for all $t \geq t_{\text{opt}}$
- ▷ monotonically decreasing

Definition (primal integral)

We define the **primal integral** $P(T)$ of $T \in [0, t_{\text{max}}]$:

$$P(T) := \int_{t=0}^T p(t) dt = \sum_{i=1}^l p(t_{i-1}) \cdot (t_i - t_{i-1}).$$

- ▷ Mean Value
 - ▶ geometric mean for primal bound
 - ▶ shifted geom. mean (shift 1.0) for primal integral and time
 - ▶ arithmetic mean for gap
- ▷ Points-based method



- ▷ “old” Formula 1 point scheme (1991 – 2002)
- ▷ Winner gets 10 points, second 6, then 4,3,2,1
- ▷ in case of ties, average over positions is taken
- ▷ no points if no primal bound, not solved to optimality

STPRBH

Name	polito			viennaNodehopper		
	PB	Plnt	Time	PB	Plnt	Time
C03-100-10-25-p	2978.0	11.8	52.8	2979.0	0.3	39.2
C03-100-30-25-p	1273.0	377.7	15.5	1314.0	155.6	1.9
C05-100-10-15-p	4860.0	249.5	64.8	5032.0	0.2	15.8
C05-100-10-25-p	4957.0	130.6	45.9	5044.0	0.8	309.4
C05-10-10-25-p	486.0	138.4	78.0	495.0	0.6	68.4
C08-100-20-25-p	3414.0	87.2	7.3	3455.0	0.5	48.7
C08-100-20-5-p	2350.0	91.2	1.5	2380.0	0.1	0.2
C09-100-20-15-p	3769.0	322.4	4.4	3945.0	0.6	663.7
C09-100-20-25-p	3956.0	34.1	6.8	3974.0	0.9	15.6
C09-10-20-25-p	383.0	37.9	0.5	385.0	0.7	6.1
C10-100-20-15-p	5805.0	124.7	34.3	5906.0	1.0	7200.1
C10-100-50-15-p	2651.0	17.1	34.2	2657.0	0.4	27.5
C10-100-50-25-p	2595.0	237.3	27.1	2683.0	0.7	10.0
C10-10-20-15-p	562.0	141.2	31.6	573.0	1.3	7200.1
C10-10-20-5-p	384.0	129.0	0.1	391.0	0.1	0.5
C10-10-50-15-p	256.0	29.5	44.4	257.0	0.6	7.5
C13-100-100-15-p	3267.0	100.9	46.5	3312.0	0.7	31.1
C13-100-100-5-p	2596.0	156.1	53.4	2653.0	0.8	12.3
C13-10-100-15-p	316.0	71.1	80.1	319.0	0.5	44.3
C13-10-100-25-p	318.0	26.8	348.5	319.0	0.8	113.4
C13-10-100-5-p	252.0	142.2	18.6	257.0	0.7	5.0
C14-100-100-15-p	4139.0	114.8	9.9	4205.0	0.4	3.0
C14-100-100-25-p	4139.0	115.4	14.2	4205.0	0.6	7.8
C15-100-100-25-p	5874.0	50.8	534.8	5905.0	0.7	9.6
C15-100-100-5-p	4883.0	170.6	6.4	5000.0	0.4	3.3
C15-100-20-5-p	12530.0	3.3	1.6	12533.0	1.0	22.4
C15-10-100-15-p	555.0	166.1	43.6	568.0	3.3	137.5
C15-10-100-25-p	564.0	66.2	226.0	569.0	0.8	16.2
C15-10-100-5-p	472.0	121.7	8.4	480.0	0.7	4.7
C18-100-1000-15-p	3500.0	276.8	2968.8	3552.0	2.1	1838.3
C18-100-1000-25-p	3476.0	294.8	5657.1	3557.0	2.5	786.1
C18-100-1000-5-p	3273.0	122.9	1038.6	3320.0	11.8	7200.6
C18-10-1000-15-p	336.0	144.9	2702.1	341.0	1.5	205.2
C18-10-1000-25-p	334.0	189.1	7200.0	341.0	1.8	321.0
C18-10-1000-5-p	313.0	134.7	527.7	318.0	7.2	7200.6

Name	polito			viennaNodehopper		
	PB	Plnt	Time	PB	Plnt	Time
C19-10-1000-15-p	403.0	431.6	216.9	428.0	1.3	23.9
C19-10-1000-25-p	403.0	431.2	474.4	428.0	2.0	57.5
C19-10-1000-5-p	390.0	254.7	33.4	404.0	3.5	106.7
C20-100-1000-15-p	5153.0	149.1	523.3	5222.0	2.5	7200.8
C20-100-1000-25-p	5186.0	142.6	517.0	5256.0	3.3	87.3
C20-100-1000-5-p	4705.0	100.1	28.8	4768.0	9.5	7200.7
C20-10-1000-5-p	448.0	196.5	28.6	460.0	5.3	1596.0
B01-10-12-p	341.0	0.0	0.3	341.0	0.0	0.0
B05-10-6-p	643.0	0.0	0.3	643.0	0.0	0.1
B05-5-3-p	588.0	0.0	0.0	588.0	0.0	0.0
B06-10-6-p	811.0	240.5	1.0	839.0	0.0	0.6
B07-10-3-p	87.0	0.0	0.0	87.0	0.0	0.0
B07-10-6-p	332.0	1666.7	0.2	432.0	0.0	0.0
B10-10-6-p	655.0	141.0	2.2	668.0	0.0	0.5
B11-5-3-p	292.0	546.8	0.0	316.0	0.0	0.0
B12-10-12-p	1258.0	735.0	0.7	1401.0	0.0	1.1
Formula 1	314.0	310.0		502.0	506.0	
Average	1171.3	87.1	30.1	1201.1	1.1	34.3

STPRBH 8 Threads

Name	polito			viennaNodehopper		
	PB	PInt	Time	PB	PInt	Time
C03-100-10-25-p	2978.0	23.3	350.2	2979.0	0.1	50.7
C03-100-30-25-p	1273.0	406.3	102.9	1343.0	0.2	4.7
C05-100-10-15-p	4860.0	261.3	164.9	5032.0	0.8	72.7
C05-100-10-25-p	4957.0	136.9	195.2	5044.0	0.3	292.8
C05-10-10-25-p	486.0	153.6	251.0	495.0	0.7	85.9
C08-100-20-25-p	3414.0	97.2	52.6	3455.0	0.3	47.6
C08-100-20-5-p	2350.0	92.0	7.7	2380.0	0.1	0.2
C09-100-20-15-p	3857.0	168.4	25.0	3945.0	1.0	1201.7
C09-100-20-25-p	3956.0	44.3	44.9	3974.0	0.5	23.3
C09-10-20-25-p	383.0	40.3	2.9	385.0	0.2	5.6
C10-100-20-15-p	5805.0	133.1	325.6	5906.0	9.3	7200.2
C10-100-50-15-p	2651.0	24.2	143.5	2657.0	0.3	32.4
C10-100-50-25-p	2595.0	271.7	362.2	2683.0	0.3	7.8
C10-10-20-15-p	550.0	311.5	200.0	573.0	3.4	7200.2
C10-10-20-5-p	384.0	129.5	0.6	391.0	0.1	0.6
C10-10-50-15-p	256.0	37.5	205.1	257.0	0.3	5.6
C13-100-100-15-p	3267.0	162.0	286.8	3312.0	0.5	45.5
C13-100-100-5-p	2596.0	162.1	81.4	2653.0	0.9	10.6
C13-10-100-15-p	316.0	95.7	427.1	319.0	0.3	32.5
C13-10-100-25-p	318.0	100.9	1314.3	319.0	0.6	88.2
C13-10-100-5-p	252.0	153.4	402.6	257.0	0.7	5.7
C14-100-100-15-p	4139.0	126.5	65.0	4205.0	0.2	3.5
C14-100-100-25-p	4139.0	129.1	111.9	4205.0	0.3	7.8
C15-100-100-25-p	5874.0	81.9	4406.6	5905.0	0.4	7.3
C15-100-100-5-p	4883.0	182.0	38.2	5000.0	0.8	3.9
C15-100-20-5-p	12530.0	11.5	9.8	12533.0	1.1	18.5
C15-10-100-15-p	564.0	62.1	216.1	568.0	0.7	146.5
C15-10-100-25-p	562.0	654.9	6558.2	569.0	0.4	5.5
C15-10-100-5-p	472.0	130.1	38.8	480.0	1.0	5.3
C18-100-1000-15-p	3476.0	215.2	7200.0	3552.0	1.5	792.8
C18-100-1000-25-p	3476.0	210.8	7200.0	3557.0	4.4	871.4
C18-100-1000-5-p	3273.0	157.4	4876.2	3320.0	8.4	7200.9
C18-10-1000-15-p	334.0	444.0	7200.1	341.0	2.9	308.2
C18-10-1000-25-p	334.0	333.6	7200.1	341.0	6.2	711.5
C18-10-1000-5-p	313.0	227.0	3675.2	318.0	18.9	7214.9

Name	PB	polito PInt	Time	PB	viennaNodehopper PInt	Time
C19-10-1000-15-p	403.0	442.9	755.7	428.0	0.9	28.1
C19-10-1000-25-p	423.0	108.1	652.3	428.0	1.2	38.0
C19-10-1000-5-p	390.0	280.1	202.6	404.0	2.5	60.2
C20-100-1000-15-p	5153.0	157.8	1301.1	5222.0	1.5	7242.7
C20-100-1000-25-p	5186.0	379.5	3544.1	5256.0	1.5	100.0
C20-100-1000-5-p	4705.0	126.9	191.7	4768.0	5.4	3379.7
C20-10-1000-5-p	448.0	228.7	234.9	460.0	10.9	922.9
B01-10-12-p	341.0	0.2	1.6	341.0	0.0	0.1
B05-10-6-p	643.0	0.2	1.7	643.0	0.0	0.2
B05-5-3-p	588.0	0.1	0.1	588.0	0.0	0.0
B06-10-6-p	811.0	241.0	7.2	839.0	0.0	1.0
B07-10-3-p	87.0	0.0	0.0	87.0	0.0	0.0
B07-10-6-p	332.0	1666.8	1.4	432.0	0.0	0.0
B10-10-6-p	655.0	141.5	18.0	668.0	0.0	0.7
B11-5-3-p	292.0	546.9	0.1	316.0	0.0	0.0
B12-10-12-p	1258.0	735.5	3.7	1401.0	0.0	1.7
Formula 1	314.0	306.0		502.0	510.0	
Average	1172.4	106.4	122.5	1201.7	1.0	35.2

HCDST

HCDST 1 Thread: Primal Bound

Name	scipjack		scipjacksp		stephop-ls1		stephop-ls2		stephop-ls3		stephop-ls4	
	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time
w010-gr16-cr100-tr100-se6	211938.0	7208.7	211938.0	7195.7	194939.0	2.3	200996.0	2.0	200996.0	1.7	194939.0	5.0
w010-gr16-cr200-tr100-se0	92807.0	7291.8	92807.0	7587.7	64319.0	6.1	63648.0	9.9	60765.0	11.4	60765.0	24.3
w010-gr16-cr200-tr100-se7	53979.0	7286.9	53979.0	7347.7	44903.0	3.8	44499.0	4.3	44995.0	4.4	44499.0	9.9
w011-gr16-cr100-tr100-se0	208336.0	7198.1	209296.0	7197.9	199062.0	1.4	198723.0	1.4	202684.0	1.4	198723.0	3.3
w011-gr16-cr100-tr100-se10	126310.0	7198.8	126455.0	7194.4	122085.0	0.8	122274.0	0.7	122274.0	0.7	122085.0	1.1
w011-gr16-cr200-tr100-se2	89356.0	7215.2	89356.0	7202.7	75300.0	2.4	73608.0	2.6	73608.0	2.6	73608.0	6.1
w011-gr16-cr200-tr100-se3	58366.0	7223.2	58366.0	7215.7	59173.0	1.3	57267.0	1.9	58032.0	1.7	57267.0	3.4
w012-gr16-cr100-tr100-se2	201048.0	7204.9	201048.0	7198.2	191203.0	1.4	195295.0	1.1	195295.0	1.3	191203.0	2.9
w012-gr16-cr200-tr100-se7	75097.0	7218.9	75097.0	7492.1	57891.0	3.7	61329.0	3.9	57891.0	5.1	57891.0	10.4
w012-gr16-cr200-tr100-se8	59827.0	7471.6	59827.0	7429.4	52363.0	1.5	51568.0	4.5	51568.0	4.7	51568.0	8.6
w010-gr12-cr100-tr100-se0	171486.0	62.7	171486.0	160.7	171486.0	0.1	182427.0	0.1	182427.0	0.1	171486.0	0.2
w010-gr12-cr100-tr100-se11	125785.0	15.4	125785.0	38.5	129851.0	0.1	128377.0	0.1	128377.0	0.1	128377.0	0.2
w010-gr12-cr200-tr100-se7	46306.0	128.0	46306.0	83.0	46307.0	0.0	46543.0	0.1	46543.0	0.1	46307.0	0.1
w011-gr12-cr100-tr100-se10	136516.0	3.7	136516.0	6.2	136604.0	0.0	136985.0	0.0	136985.0	0.0	136604.0	0.1
w011-gr12-cr100-tr100-se2	163872.0	5.1	163872.0	4.8	170851.0	0.0	170297.0	0.0	170297.0	0.0	170297.0	0.1
w011-gr12-cr200-tr100-se11	66786.0	12.2	66786.0	21.3	68497.0	0.0	72743.0	0.1	72743.0	0.1	68497.0	0.1
w011-gr12-cr200-tr100-se2	75434.0	18.4	75434.0	24.4	75434.0	0.0	95883.0	0.0	95883.0	0.0	75434.0	0.1
w012-gr12-cr100-tr100-se1	164198.0	4.5	164198.0	5.5	181007.0	0.0	189507.0	0.0	189507.0	0.0	181007.0	0.1
w012-gr12-cr100-tr100-se7	136232.0	3.4	136232.0	4.0	136232.0	0.0	143309.0	0.0	143309.0	0.0	136232.0	0.1
w012-gr12-cr200-tr100-se9	46408.0	22.2	46408.0	22.9	46487.0	0.0	48026.0	0.0	46487.0	0.0	46487.0	0.1
w010-gr14-cr100-tr100-se0	180889.0	7199.4	178282.0	7197.0	167087.0	0.2	180091.0	0.2	180091.0	0.2	167087.0	0.6
w010-gr14-cr100-tr100-se11	127474.0	7200.5	129690.0	7194.5	122039.0	0.1	123414.0	0.3	123414.0	0.3	122039.0	0.6
w010-gr14-cr200-tr100-se3	61499.0	7205.8	61935.0	7206.0	52765.0	0.3	52854.0	0.8	52855.0	0.8	52765.0	1.2
w011-gr14-cr100-tr100-se6	221946.0	7199.3	225407.0	7195.0	221220.0	0.2	228795.0	0.2	228795.0	0.2	221220.0	0.4
w011-gr14-cr200-tr100-se2	75270.0	7200.9	78961.0	7195.7	71379.0	0.3	71379.0	0.4	71379.0	0.4	71379.0	0.7
w011-gr14-cr200-tr100-se4	63313.0	2603.1	63313.0	7195.6	68053.0	0.1	63550.0	0.3	66959.0	0.3	63550.0	0.7
w012-gr14-cr100-tr100-se8	116077.0	1131.2	116077.0	5370.5	118037.0	0.1	116438.0	0.1	116438.0	0.1	116438.0	0.3
w012-gr14-cr100-tr100-se9	100813.0	444.0	100813.0	595.4	102304.0	0.1	114360.0	0.1	114360.0	0.1	102304.0	0.2
w012-gr14-cr200-tr100-se10	76467.0	7202.1	70925.0	7207.3	67880.0	0.6	65262.0	0.6	65262.0	0.6	65262.0	1.3
w012-gr14-cr200-tr100-se5	62234.0	7203.9	61486.0	7198.6	60926.0	0.2	62011.0	0.5	62011.0	0.5	60926.0	0.8
Formula 1	127.2		128.2		139.2		106.8		99.9		178.7	
Average	100838.8	761.7	100810.3	924.7	95966.9	0.6	98011.1	0.7	97879.7	0.7	95093.0	1.3

HCDST 1 Thread: Primal Integral

Name	scipjack		scipjackspx		stephop-ls1		stephop-ls2		stephop-ls3		stephop-ls4	
	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time
wo10-gr16-cr100-tr100-se6	597.8	7208.7	598.3	7195.7	2.0	2.3	217.8	2.0	217.4	1.7	0.8	5.0
wo10-gr16-cr200-tr100-se0	2545.0	7291.8	2544.9	7587.7	402.2	6.1	328.9	9.9	2.7	11.4	3.6	24.3
wo10-gr16-cr200-tr100-se7	1338.8	7286.9	1339.8	7347.7	67.3	3.8	1.6	4.3	81.0	4.4	1.8	9.9
wo11-gr16-cr100-tr100-se0	344.3	7198.1	375.5	7197.9	13.3	1.4	0.5	1.4	141.2	1.4	0.5	3.3
wo11-gr16-cr100-tr100-se10	286.6	7198.8	291.6	7194.4	0.4	0.8	11.5	0.7	11.5	0.7	0.4	1.1
wo11-gr16-cr200-tr100-se2	1292.0	7215.2	1292.1	7202.7	163.9	2.4	1.1	2.6	1.1	2.6	1.1	6.1
wo11-gr16-cr200-tr100-se3	163.0	7223.2	163.3	7215.7	233.1	1.3	0.9	1.9	95.7	1.7	0.9	3.4
wo12-gr16-cr100-tr100-se2	381.7	7204.9	381.3	7198.2	1.1	1.4	151.4	1.1	151.4	1.3	0.6	2.9
wo12-gr16-cr200-tr100-se7	1701.6	7218.9	1701.7	7492.1	3.0	3.7	405.1	3.9	1.6	5.1	1.7	10.4
wo12-gr16-cr200-tr100-se8	1041.1	7471.6	1041.8	7429.4	110.6	1.5	1.5	4.5	1.6	4.7	1.5	8.6
wo10-gr12-cr100-tr100-se0	3.3	62.7	2.0	160.7	0.1	0.1	431.8	0.1	431.8	0.1	0.0	0.2
wo10-gr12-cr100-tr100-se11	0.5	15.4	0.6	38.5	225.5	0.1	145.4	0.1	145.4	0.1	145.4	0.2
wo10-gr12-cr200-tr100-se7	3.6	128.0	2.4	83.0	0.2	0.0	36.7	0.1	36.7	0.1	0.2	0.1
wo11-gr12-cr100-tr100-se10	0.1	3.7	0.1	6.2	4.7	0.0	24.6	0.0	24.6	0.0	4.6	0.1
wo11-gr12-cr100-tr100-se2	0.1	5.1	0.1	4.8	294.1	0.0	271.6	0.0	271.6	0.0	271.6	0.1
wo11-gr12-cr200-tr100-se11	1.3	12.2	2.0	21.3	179.9	0.0	589.6	0.1	589.6	0.1	179.9	0.1
wo11-gr12-cr200-tr100-se2	0.2	18.4	0.1	24.4	0.0	0.0	1535.5	0.0	1535.5	0.0	0.0	0.1
wo12-gr12-cr100-tr100-se1	0.2	4.5	0.2	5.5	668.6	0.0	961.6	0.0	961.6	0.0	668.6	0.1
wo12-gr12-cr100-tr100-se7	0.1	3.4	0.1	4.0	0.0	0.0	355.6	0.0	355.6	0.0	0.0	0.1
wo12-gr12-cr200-tr100-se9	0.9	22.2	1.6	22.9	12.2	0.0	242.6	0.0	12.2	0.0	12.2	0.1
wo10-gr14-cr100-tr100-se0	616.4	7199.4	488.9	7197.0	0.1	0.2	520.0	0.2	520.0	0.2	0.1	0.6
wo10-gr14-cr200-tr100-se11	373.8	7200.5	465.4	7194.5	0.1	0.1	80.3	0.3	80.3	0.3	0.1	0.6
wo10-gr14-cr200-tr100-se3	1036.7	7205.8	1078.9	7206.0	0.2	0.3	12.4	0.8	12.6	0.8	0.3	1.2
wo11-gr14-cr100-tr100-se6	38.2	7199.3	136.3	7195.0	0.1	0.2	238.4	0.2	238.4	0.2	0.0	0.4
wo11-gr14-cr200-tr100-se2	494.2	7200.9	914.6	7195.7	0.2	0.3	0.1	0.4	0.1	0.4	0.1	0.7
wo11-gr14-cr200-tr100-se4	256.0	2603.1	376.0	7195.6	501.6	0.1	26.9	0.3	392.1	0.3	26.9	0.7
wo12-gr14-cr100-tr100-se8	45.5	1131.2	123.6	5370.5	119.6	0.1	22.4	0.1	22.4	0.1	22.4	0.3
wo12-gr14-cr100-tr100-se9	10.6	444.0	15.7	595.4	105.0	0.1	852.9	0.1	852.9	0.1	105.0	0.2
wo12-gr14-cr200-tr100-se10	1059.4	7202.1	617.1	7207.3	278.1	0.6	0.2	0.6	0.2	0.6	0.2	1.3
wo12-gr14-cr200-tr100-se5	189.5	7203.9	86.6	7198.6	0.1	0.2	126.1	0.5	126.1	0.5	0.1	0.8
Formula 1	117.0		95.0		129.0		115.5		112.5		211.0	
Average	62.0	761.7	67.2	924.7	14.0	0.6	55.5	0.7	59.6	0.7	3.7	1.3

DCST

Name	mozartballs			scipjack			scipjacksp		
	PB	Plnt	Time	PB	Plnt	Time	PB	Plnt	Time
TF101057-t1-p	-	7200.0	0.3	-	7200.0	7195.7	-	7200.0	7166.8
TF101057-t3-p	2756.0	0.0	0.7	2756.0	0.0	12.2	2756.0	0.0	27.6
TF101125-t1-p	-	7200.0	14.0	-	7200.0	7202.7	-	7200.0	7200.0
TF101125-t3-p	55185.0	0.8	3194.1	59438.0	516.3	7200.8	59438.0	516.2	7202.6
TF101202-t1-p	79920.0	129.5	131.3	-	7200.0	7200.4	-	7200.0	7200.0
TF101202-t3-p	77978.0	0.2	87.2	78133.0	178.1	7200.6	78133.0	19.3	7199.8
TF102003-t1-p	-	7200.0	7225.4	-	7200.0	7212.3	-	7200.0	7220.1
TF102003-t3-p	475366.0	4236.8	7208.4	195794.0	11.2	7228.8	195794.0	11.1	7233.7
TF105035-t1-p	35618.0	407.3	407.4	-	7200.0	7201.1	-	7200.0	7200.2
TF105035-t3-p	32916.0	1.8	1181.3	35365.0	499.1	7202.5	35365.0	499.3	7200.7
TF105272-t1-p	-	7200.0	7202.0	-	7200.0	7203.5	-	7200.0	7207.1
TF105272-t3-p	404336.0	4742.3	7209.8	138046.0	3.1	7204.8	138046.0	3.0	7200.0
TF105419-t1-p	18668.0	1.1	1.1	18668.0	2.7	759.3	18668.0	4.0	544.7
TF105419-t3-p	18223.0	0.0	2.6	18223.0	0.1	9.2	18223.0	0.1	12.0
TF105897-t1-p	112879.0	2827.4	3206.9	-	7200.0	7200.5	-	7200.0	7201.9
TF105897-t3-p	201822.0	3444.2	7200.8	105289.0	1.1	7202.0	105289.0	1.1	7201.9
TF106403-t1-p	54124.0	15.5	15.5	54124.0	82.7	383.6	54124.0	246.7	4097.9
TF106403-t3-p	53760.0	0.1	71.3	53760.0	0.2	48.9	53760.0	0.4	89.8
TF106478-t1-p	55132.0	20.4	20.5	55132.0	317.6	7197.3	55467.0	2831.4	7196.9
TF106478-t3-p	54839.0	0.2	37.5	54974.0	19.7	7192.8	55009.0	29.6	7193.6
Formula 1	123.3	168.7		85.3	116.7		81.3	114.7	
Average	55308.3	80.4	165.8	45766.2	142.2	2278.5	45788.9	156.9	2734.4

Name	mozartballs		scipjack		scipjackspix	
	gap	Time	gap	Time	gap	Time
TF101057-t1-p	0.0	0.3	100.0	7195.7	100.0	7166.8
TF101057-t3-p	0.0	0.7	0.0	12.2	0.0	27.6
TF101125-t1-p	0.0	14.0	100.0	7202.7	100.0	7200.0
TF101125-t3-p	0.0	3194.1	9.7	7200.8	9.7	7202.6
TF101202-t1-p	0.0	131.3	100.0	7200.4	100.0	7200.0
TF101202-t3-p	0.0	87.2	0.4	7200.6	0.3	7199.8
TF102003-t1-p	100.0	7225.4	100.0	7212.3	100.0	7220.1
TF102003-t3-p	62.2	7208.4	10.1	7228.8	10.1	7233.7
TF105035-t1-p	0.0	407.4	100.0	7201.1	100.0	7200.2
TF105035-t3-p	0.0	1181.3	8.0	7202.5	8.1	7200.7
TF105272-t1-p	100.0	7202.0	100.0	7203.5	100.0	7207.1
TF105272-t3-p	68.7	7209.8	10.5	7204.8	10.3	7200.0
TF105419-t1-p	0.0	1.1	0.0	759.3	0.0	544.7
TF105419-t3-p	0.0	2.6	0.0	9.2	0.0	12.0
TF105897-t1-p	0.0	3206.9	100.0	7200.5	100.0	7201.9
TF105897-t3-p	51.6	7200.8	8.7	7202.0	8.5	7201.9
TF106403-t1-p	0.0	15.5	0.0	383.6	0.0	4097.9
TF106403-t3-p	0.0	71.3	0.0	48.9	0.0	89.8
TF106478-t1-p	0.0	20.5	0.1	7197.3	0.8	7196.9
TF106478-t3-p	0.0	37.5	0.4	7192.8	0.5	7193.6
Formula 1	152.0	146.0	121.0	32.0	127.0	22.0
Average	19.1	165.8	37.4	2278.5	37.4	2734.4

Name	fscipjack			fscipjacksp			mozartballs		
	PB	Plnt	Time	PB	Plnt	Time	PB	Plnt	Time
TF101057-t1-p	-	7200.0	7205.0	-	7200.0	7205.0	-	7200.0	0.4
TF101057-t3-p	2756.0	0.3	17.0	2756.0	0.2	17.0	2756.0	0.0	0.7
TF101125-t1-p	-	7200.0	7208.0	-	7200.0	7205.0	-	7200.0	15.0
TF101125-t3-p	59438.0	516.3	7208.0	59438.0	516.2	7207.0	55185.0	1.5	3223.8
TF101202-t1-p	-	7200.0	7204.0	-	7200.0	7204.0	79920.0	135.9	137.7
TF101202-t3-p	78375.0	36.9	7204.0	78152.0	16.4	7203.0	77978.0	0.3	88.0
TF102003-t1-p	-	7200.0	7255.0	-	7200.0	7247.0	-	7200.0	7209.9
TF102003-t3-p	195794.0	11.1	7236.0	195794.0	11.0	7217.0	475366.0	4236.8	7218.9
TF105035-t1-p	-	7200.0	7205.0	-	7200.0	7206.0	35618.0	405.9	406.0
TF105035-t3-p	35365.0	499.2	7204.0	35365.0	499.2	7203.0	32916.0	0.8	1227.8
TF105272-t1-p	-	7200.0	7218.0	-	7200.0	7217.0	-	7200.0	7202.8
TF105272-t3-p	138046.0	3.0	7217.0	138046.0	3.0	7216.0	404336.0	4742.3	7203.7
TF105419-t1-p	18668.0	65.4	176.0	18668.0	98.1	137.0	18668.0	1.1	1.2
TF105419-t3-p	18223.0	0.1	8.0	18223.0	0.0	13.0	18223.0	0.0	2.8
TF105897-t1-p	-	7200.0	7210.0	-	7200.0	7210.0	112879.0	2832.1	3242.4
TF105897-t3-p	105289.0	1.2	7207.0	105289.0	1.2	7208.0	201822.0	3444.2	7285.9
TF106403-t1-p	54124.0	801.2	519.0	54124.0	1871.9	689.0	54124.0	15.8	15.9
TF106403-t3-p	53760.0	2.5	116.0	53760.0	0.4	159.0	53760.0	0.1	72.7
TF106478-t1-p	55132.0	1171.5	7202.0	55132.0	1805.1	7203.0	55132.0	21.3	21.7
TF106478-t3-p	54839.0	52.8	3216.0	54839.0	43.5	1621.0	54839.0	0.1	36.8
Formula 1	84.7	110.7		86.7	120.7		118.7	168.7	
Average	45768.5	204.1	2177.6	45758.4	200.4	2188.5	55308.3	80.5	169.5

Name	fscipjack		fscipjackspix		mozartballs	
	gap	Time	gap	Time	gap	Time
TF101057-t1-p	100.0	7205.0	100.0	7205.0	0.0	0.4
TF101057-t3-p	0.0	17.0	0.0	17.0	0.0	0.7
TF101125-t1-p	100.0	7208.0	100.0	7205.0	0.0	15.0
TF101125-t3-p	9.9	7208.0	9.4	7207.0	0.0	3223.8
TF101202-t1-p	100.0	7204.0	100.0	7204.0	0.0	137.7
TF101202-t3-p	0.7	7204.0	0.4	7203.0	0.0	88.0
TF102003-t1-p	100.0	7255.0	100.0	7247.0	100.0	7209.9
TF102003-t3-p	100.0	7236.0	100.0	7217.0	62.2	7218.9
TF105035-t1-p	100.0	7205.0	100.0	7206.0	0.0	406.0
TF105035-t3-p	8.2	7204.0	8.1	7203.0	0.0	1227.8
TF105272-t1-p	100.0	7218.0	100.0	7217.0	100.0	7202.8
TF105272-t3-p	12.8	7217.0	13.6	7216.0	68.7	7203.7
TF105419-t1-p	0.0	176.0	0.0	137.0	0.0	1.2
TF105419-t3-p	0.0	8.0	0.0	13.0	0.0	2.8
TF105897-t1-p	100.0	7210.0	100.0	7210.0	0.0	3242.4
TF105897-t3-p	8.8	7207.0	8.5	7208.0	51.6	7285.9
TF106403-t1-p	0.0	519.0	0.0	689.0	0.0	15.9
TF106403-t3-p	0.0	116.0	0.0	159.0	0.0	72.7
TF106478-t1-p	0.1	7202.0	0.1	7203.0	0.0	21.7
TF106478-t3-p	0.0	3216.0	0.0	1621.0	0.0	36.8
Formula 1	117.3	31.0	121.3	29.0	161.3	150.0
Average	42.0	2177.6	42.0	2188.5	19.1	169.5

RPCST

Name	AB		heinz-mc		heinz-no-dc		heinz-no-pre		KTS	
	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time
i101M1-p	109271.5	34.0	109271.5	7200.0	109271.5	1.0	109271.5	3.0	109271.5	7199.0
i101M2-p	387041.0	7202.0	332485.1	7200.0	317573.6	7203.0	320680.3	7207.0	315925.3	7200.0
i101M3-p	622113.3	7207.0	448429.9	7200.0	367412.7	7203.0	368053.1	7205.0	355625.4	7200.0
i102M1-p	104065.8	107.0	104065.8	7200.0	104065.8	2.0	104065.8	4.0	104065.8	7199.0
i102M2-p	354337.2	7203.0	363517.0	7200.0	354053.8	7204.0	355152.9	7205.0	352538.8	7199.0
i102M3-p	580556.3	7202.0	533274.3	7200.0	475309.1	7204.0	467402.0	7202.0	454365.9	7199.0
i103M1-p	139749.4	7203.0	139749.4	7199.0	139749.4	7.0	139749.4	8.0	139749.4	7199.0
i103M2-p	408876.2	7202.0	425641.0	7199.0	408561.2	7207.0	409524.2	7203.0	407834.2	7198.0
i103M3-p	606110.0	7203.0	567154.9	7199.0	462642.5	7207.0	462207.2	7203.0	456125.5	7199.0
i104M2-p	90900.2	7202.0	89920.8	7199.0	89920.8	7204.0	89920.8	7202.0	89920.8	7199.0
i104M3-p	97149.8	7202.0	99087.4	7199.0	97148.8	7203.0	97150.8	7208.0	97148.8	7199.0
i105M1-p	26717.2	13.0	26717.2	7199.0	26717.2	0.0	26717.2	3.0	26717.2	7199.0
i105M2-p	104496.5	7202.0	100742.6	7199.0	100269.6	7202.0	100269.6	7203.0	100269.6	7199.0
i105M3-p	110414.2	7202.0	114535.9	7199.0	111592.2	7207.0	111544.2	7204.0	110351.2	7199.0
i201M2-p	359774.2	7203.0	359774.2	7199.0	355844.0	7212.0	355825.5	7208.0	355467.7	7199.0
i201M3-p	724259.7	7203.0	747658.1	7200.0	667373.4	7210.0	664638.8	6961.0	628833.6	7199.0
i201M4-p	941281.8	7203.0	1078178.2	7200.0	795718.9	7203.0	883643.1	7202.0	773398.3	7199.0
i202M2-p	291469.8	7203.0	356354.2	7200.0	291645.1	7217.0	290768.4	7209.0	288946.8	7199.0
i202M3-p	1207417.6	7202.0	589577.6	7200.0	455150.5	5984.0	451039.1	7075.0	419184.2	7199.0
i202M4-p	2033361.1	7203.0	736072.6	7200.0	489015.2	7204.0	504721.2	7205.0	430034.3	7199.0
i203M2-p	1055699.2	7202.0	565329.6	7200.0	461078.7	7208.0	468648.4	7218.0	459894.8	7199.0
i203M3-p	1817008.9	7203.0	931922.4	7200.0	660988.8	7214.0	655975.2	7218.0	643062.0	7199.0
i203M4-p	1198975.1	7204.0	1239234.0	7200.0	707381.6	7207.0	802540.0	7205.0	677733.1	7199.0
i204M2-p	161700.5	7202.0	161700.5	7200.0	161700.5	6787.0	161700.5	7209.0	161700.5	7199.0
i204M3-p	377301.3	7203.0	319133.5	7200.0	258833.5	7213.0	293949.0	7219.0	245287.2	7199.0
i204M4-p	754676.8	7203.0	319413.6	7200.0	412682.1	7202.0	300827.5	7207.0	245287.2	7199.0
i205M2-p	610712.0	7203.0	620194.2	7200.0	586888.9	6898.0	595942.8	6629.0	571031.4	7199.0
i205M3-p	976501.8	7202.0	1030486.9	7200.0	703489.3	6875.0	1003969.0	6920.0	672403.1	7199.0
i205M4-p	1004104.9	7203.0	1423986.6	7200.0	984497.1	7209.0	781172.5	7217.0	713973.6	7199.0
Formula 1	18.4		2.9		39.8		29.0		143.3	
Average	511417.0	4181.0	430218.8	7199.7	362312.7	2390.2	365444.1	2639.0	339422.7	7199.0

Name	mozartballs		polito		schmidt		scipjack		scipjackspx	
	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time
i101M1-p	109271.5	1.0	109271.5	1.0	109271.5	0.0	109271.5	1.0	109271.5	0.0
i101M2-p	315925.3	20.0	317865.3	7200.0	341795.5	0.0	315925.3	8.0	315925.3	13.0
i101M3-p	355625.4	23.0	359306.8	1077.0	385703.6	0.0	355625.4	10.0	355625.4	16.0
i102M1-p	104065.8	1.0	104065.8	1.0	104065.8	0.0	104065.8	0.0	104065.8	0.0
i102M2-p	352538.8	26.0	354874.1	2080.0	363303.1	0.0	352538.8	8.0	352538.8	19.0
i102M3-p	454365.9	42.0	459372.7	7199.0	506798.4	0.0	454365.9	12.0	454365.9	25.0
i103M1-p	139749.4	1.0	139749.4	1.0	139749.4	0.0	139749.4	1.0	139749.4	1.0
i103M2-p	407834.2	16.0	411325.8	1655.0	414413.9	0.0	407834.2	6.0	407834.2	11.0
i103M3-p	456125.5	29.0	460342.6	7199.0	510162.8	0.0	456125.5	9.0	456125.5	20.0
i104M2-p	89920.8	6.0	89920.8	59.0	89920.8	0.0	89920.8	5.0	89920.8	6.0
i104M3-p	97148.8	12.0	97148.8	6241.0	97148.8	0.0	97148.8	5.0	97148.8	7.0
i105M1-p	26717.2	1.0	26717.2	1.0	26717.2	0.0	26717.2	0.0	26717.2	0.0
i105M2-p	100269.6	8.0	101793.6	325.0	100269.6	0.0	100269.6	6.0	100269.6	7.0
i105M3-p	110351.2	15.0	110616.2	1973.0	114983.2	0.0	110351.2	10.0	110351.2	14.0
i201M2-p	355467.7	16.0	356008.1	6.0	355467.7	0.0	355467.7	58.0	355467.7	46.0
i201M3-p	628833.6	126.0	656766.0	530.0	634950.9	0.0	628833.6	76.0	628833.6	180.0
i201M4-p	773398.3	170.0	790722.4	7200.0	819724.7	0.0	773398.3	96.0	773398.3	252.0
i202M2-p	288946.8	15.0	304695.9	19.0	288946.8	0.0	288946.8	57.0	288946.8	57.0
i202M3-p	419184.2	63.0	436537.5	129.0	430188.0	0.0	419184.2	60.0	419184.2	87.0
i202M4-p	430034.3	109.0	437662.3	7200.0	489456.1	0.0	430034.3	63.0	430034.3	144.0
i203M2-p	459894.8	14.0	515809.9	18.0	459894.8	0.0	459894.8	56.0	459894.8	60.0
i203M3-p	643062.0	255.0	663513.4	2091.0	666414.9	0.0	643062.0	98.0	643062.0	375.0
i203M4-p	677733.1	211.0	689472.2	7200.0	707384.7	0.0	677733.1	112.0	677733.1	347.0
i204M2-p	161700.5	8.0	161700.5	6.0	161700.5	0.0	161700.5	24.0	161700.5	30.0
i204M3-p	245287.2	27.0	255076.8	29.0	344623.3	0.0	245287.2	36.0	245287.2	44.0
i204M4-p	245287.2	36.0	251987.6	5700.0	344623.3	0.0	245287.2	55.0	245287.2	43.0
i205M2-p	571031.4	12.0	612473.0	10.0	571459.1	0.0	571031.4	42.0	571031.4	50.0
i205M3-p	672403.1	46.0	680037.4	7200.0	778670.3	0.0	672403.1	36.0	672403.1	55.0
i205M4-p	713973.6	56.0	725387.4	7200.0	844022.1	0.0	713973.6	42.0	713973.6	60.0
Formula 1	143.3		45.0		45.8		143.3		143.3	
Average	339422.7	20.8	347264.3	296.2	367760.1	0.0	339422.7	16.9	339422.7	24.4

RPCST 1 Thread: Primal Integral (1)

Name	AB		heinz-mc		heinz-no-dc		heinz-no-pre		KTS	
	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time
i101M1-p	0.0	34.0	7200.0	7200.0	0.4	1.0	0.4	3.0	0.0	7199.0
i101M2-p	1323.0	7202.0	435.4	7200.0	43.9	7203.0	113.1	7207.0	0.0	7200.0
i101M3-p	3084.4	7207.0	1512.8	7200.0	257.2	7203.0	292.5	7205.0	0.1	7200.0
i102M1-p	0.0	107.0	7200.0	7200.0	0.4	2.0	0.4	4.0	0.0	7199.0
i102M2-p	36.6	7203.0	223.4	7200.0	39.4	7204.0	71.7	7205.0	0.0	7199.0
i102M3-p	1565.2	7202.0	1069.4	7200.0	322.5	7204.0	207.5	7202.0	0.0	7199.0
i103M1-p	0.0	7203.0	7200.0	7199.0	0.5	7.0	0.4	8.0	0.0	7199.0
i103M2-p	18.4	7202.0	326.5	7199.0	16.8	7207.0	32.8	7203.0	0.0	7198.0
i103M3-p	1782.6	7203.0	1414.3	7199.0	105.9	7207.0	104.0	7203.0	0.0	7199.0
i104M2-p	77.6	7202.0	0.1	7199.0	0.4	7204.0	0.4	7202.0	0.0	7199.0
i104M3-p	0.2	7202.0	179.2	7199.0	4.0	7203.0	11.3	7208.0	0.0	7199.0
i105M1-p	0.0	13.0	7200.0	7199.0	0.4	0.0	0.4	3.0	0.0	7199.0
i105M2-p	291.2	7202.0	43.4	7199.0	4.6	7202.0	4.5	7203.0	0.0	7199.0
i105M3-p	4.2	7202.0	341.5	7199.0	84.8	7207.0	108.8	7204.0	0.0	7199.0
i201M2-p	86.2	7203.0	7200.0	7199.0	9.7	7212.0	9.9	7208.0	0.1	7199.0
i201M3-p	949.0	7203.0	1213.7	7200.0	452.8	7210.0	417.5	6961.0	0.1	7199.0
i201M4-p	1284.3	7203.0	2042.4	7200.0	269.5	7203.0	1128.9	7202.0	0.1	7199.0
i202M2-p	62.3	7203.0	1415.6	7200.0	83.5	7217.0	68.9	7209.0	0.1	7199.0
i202M3-p	4700.4	7202.0	2084.5	7200.0	602.6	5984.0	583.5	7075.0	0.1	7199.0
i202M4-p	5677.3	7203.0	3031.9	7200.0	931.2	7204.0	1200.5	7205.0	0.1	7199.0
i203M2-p	4063.5	7202.0	1443.0	7200.0	40.4	7208.0	191.2	7218.0	0.1	7199.0
i203M3-p	4651.8	7203.0	2356.2	7200.0	223.6	7214.0	173.2	7218.0	0.1	7199.0
i203M4-p	3130.1	7204.0	3328.1	7200.0	352.3	7207.0	1154.4	7205.0	0.1	7199.0
i204M2-p	0.0	7202.0	7200.0	7200.0	0.9	6787.0	0.9	7209.0	0.1	7199.0
i204M3-p	2519.2	7203.0	1705.7	7200.0	1002.5	7213.0	1204.5	7219.0	0.1	7199.0
i204M4-p	4859.8	7203.0	1694.8	7200.0	3043.2	7202.0	1432.5	7207.0	0.1	7199.0
i205M2-p	467.8	7203.0	7200.0	7200.0	197.7	6898.0	303.9	6629.0	0.1	7199.0
i205M3-p	2242.2	7202.0	2642.3	7200.0	373.7	6875.0	2387.9	6920.0	0.1	7199.0
i205M4-p	2080.4	7203.0	3633.6	7200.0	1996.6	7209.0	716.6	7217.0	0.1	7199.0
Formula 1	59.0		2.0		14.3		13.0		261.3	
Average	180.8	4181.0	1288.8	7199.7	55.7	2390.2	72.3	2639.0	0.0	7199.0

RPCST 1 Thread: Primal Integral (2)

Name	mozartballs		polito		schmidt		scipjack		scipjackspx	
	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time
i101M1-p	1.0	1.0	0.0	1.0	0.0	0.0	0.4	1.0	0.4	0.0
i101M2-p	0.1	20.0	44.2	7200.0	545.0	0.0	0.4	8.0	0.4	13.0
i101M3-p	0.1	23.0	81.3	1077.0	561.5	0.0	0.4	10.0	0.4	16.0
i102M1-p	1.0	1.0	0.0	1.0	0.0	0.0	0.4	0.0	0.4	0.0
i102M2-p	0.1	26.0	47.5	2080.0	213.4	0.0	0.4	8.0	0.2	19.0
i102M3-p	0.2	42.0	162.9	7199.0	744.9	0.0	0.4	12.0	0.4	25.0
i103M1-p	1.1	1.0	0.0	1.0	0.0	0.0	0.4	1.0	0.4	1.0
i103M2-p	0.1	16.0	61.5	1655.0	114.3	0.0	0.4	6.0	0.4	11.0
i103M3-p	0.2	29.0	69.9	7199.0	762.7	0.0	0.4	9.0	0.4	20.0
i104M2-p	0.1	6.0	0.0	59.0	0.0	0.0	0.4	5.0	0.4	6.0
i104M3-p	0.3	12.0	0.1	6241.0	0.0	0.0	0.4	5.0	0.4	7.0
i105M1-p	1.1	1.0	0.0	1.0	0.0	0.0	0.4	0.0	0.4	0.0
i105M2-p	0.1	8.0	107.9	325.0	0.0	0.0	0.4	6.0	0.4	7.0
i105M3-p	0.3	15.0	28.0	1973.0	290.1	0.0	0.4	10.0	0.4	14.0
i201M2-p	0.2	16.0	11.1	6.0	0.1	0.0	1.4	58.0	1.4	46.0
i201M3-p	0.4	126.0	307.8	530.0	69.5	0.0	1.5	76.0	1.6	180.0
i201M4-p	0.3	170.0	199.2	7200.0	407.0	0.0	1.4	96.0	1.4	252.0
i202M2-p	0.2	15.0	372.3	19.0	0.1	0.0	1.5	57.0	1.4	57.0
i202M3-p	0.2	63.0	286.7	129.0	184.3	0.0	1.4	60.0	1.5	87.0
i202M4-p	0.2	109.0	173.1	7200.0	874.2	0.0	1.5	63.0	1.4	144.0
i203M2-p	0.2	14.0	780.6	18.0	0.1	0.0	1.5	56.0	1.5	60.0
i203M3-p	0.4	255.0	227.1	2091.0	252.4	0.0	1.5	98.0	1.7	375.0
i203M4-p	0.3	211.0	155.3	7200.0	301.9	0.0	1.4	112.0	1.6	347.0
i204M2-p	0.2	8.0	0.4	6.0	0.1	0.0	2.0	24.0	2.2	30.0
i204M3-p	0.2	27.0	276.6	29.0	2075.4	0.0	2.2	36.0	2.1	44.0
i204M4-p	0.2	36.0	206.5	5700.0	2075.4	0.0	2.1	55.0	2.0	43.0
i205M2-p	0.2	12.0	487.3	10.0	5.5	0.0	1.4	42.0	1.4	50.0
i205M3-p	0.3	46.0	81.9	7200.0	982.7	0.0	1.6	36.0	1.4	55.0
i205M4-p	1.0	56.0	116.8	7200.0	1109.5	0.0	1.5	42.0	1.6	60.0
Formula 1	132.0		51.3		67.3		77.8		75.8	
Average	0.3	20.8	40.4	296.2	38.6	0.0	0.9	16.9	0.9	24.4

Name	AB		heinz-no-dc		heinz-no-pre		mozartballs		scipjack		scipjackspx	
	gap	Time	gap	Time	gap	Time	gap	Time	gap	Time	gap	Time
i101M1-p	0.0	34.0	0.0	1.0	0.0	3.0	0.0	1.0	0.0	1.0	0.0	0.0
i101M2-p	39.1	7202.0	10.2	7203.0	11.1	7207.0	0.0	20.0	0.0	8.0	0.0	13.0
i101M3-p	60.1	7207.0	17.2	7203.0	18.7	7205.0	0.0	23.0	0.0	10.0	0.0	16.0
i102M1-p	0.0	107.0	0.0	2.0	0.0	4.0	0.0	1.0	0.0	0.0	0.0	0.0
i102M2-p	20.8	7203.0	9.6	7204.0	9.9	7205.0	0.0	26.0	0.0	8.0	0.0	19.0
i102M3-p	44.4	7202.0	17.6	7204.0	14.4	7202.0	0.0	42.0	0.0	12.0	0.0	25.0
i103M1-p	15.1	7203.0	0.0	7.0	0.0	8.0	0.0	1.0	0.0	1.0	0.0	1.0
i103M2-p	17.4	7202.0	8.0	7207.0	7.6	7203.0	0.0	16.0	0.0	6.0	0.0	11.0
i103M3-p	42.5	7203.0	15.0	7207.0	15.2	7203.0	0.0	29.0	0.0	9.0	0.0	20.0
i104M2-p	44.6	7202.0	10.3	7204.0	10.4	7202.0	0.0	6.0	0.0	5.0	0.0	6.0
i104M3-p	44.1	7202.0	13.5	7203.0	14.8	7208.0	0.0	12.0	0.0	5.0	0.0	7.0
i105M1-p	0.0	13.0	0.0	0.0	0.0	3.0	0.0	1.0	0.0	0.0	0.0	0.0
i105M2-p	60.1	7202.0	21.4	7202.0	20.5	7203.0	0.0	8.0	0.0	6.0	0.0	7.0
i105M3-p	60.8	7202.0	30.6	7207.0	28.9	7204.0	0.0	15.0	0.0	10.0	0.0	14.0
i201M2-p	24.3	7203.0	10.7	7212.0	10.4	7208.0	0.0	16.0	0.0	58.0	0.0	46.0
i201M3-p	37.4	7203.0	19.9	7210.0	20.1	6961.0	0.0	126.0	0.0	76.0	0.0	180.0
i201M4-p	43.6	7203.0	22.7	7203.0	29.4	7202.0	0.0	170.0	0.0	96.0	0.0	252.0
i202M2-p	34.7	7203.0	19.2	7217.0	18.2	7209.0	0.0	15.0	0.0	57.0	0.0	57.0
i202M3-p	80.1	7202.0	34.6	5984.0	33.7	7075.0	0.0	63.0	0.0	60.0	0.0	87.0
i202M4-p	88.2	7203.0	37.9	7204.0	38.3	7205.0	0.0	109.0	0.0	63.0	0.0	144.0
i203M2-p	67.7	7202.0	10.8	7208.0	13.2	7218.0	0.0	14.0	0.0	56.0	0.0	60.0
i203M3-p	75.5	7203.0	24.1	7214.0	23.6	7218.0	0.0	255.0	0.0	98.0	0.0	375.0
i203M4-p	62.4	7204.0	23.0	7207.0	32.0	7205.0	0.0	211.0	0.0	112.0	0.0	347.0
i204M2-p	46.6	7202.0	17.6	6787.0	18.0	7209.0	0.0	8.0	0.0	24.0	0.0	30.0
i204M3-p	72.3	7203.0	35.0	7213.0	43.5	7219.0	0.0	27.0	0.0	36.0	0.0	44.0
i204M4-p	86.2	7203.0	59.8	7202.0	43.9	7207.0	0.0	36.0	0.0	55.0	0.0	43.0
i205M2-p	24.7	7203.0	12.3	6898.0	14.1	6629.0	0.0	12.0	0.0	42.0	0.0	50.0
i205M3-p	45.2	7202.0	16.4	6875.0	41.7	6920.0	0.0	46.0	0.0	36.0	0.0	55.0
i205M4-p	46.1	7203.0	37.3	7209.0	22.4	7217.0	0.0	56.0	0.0	42.0	0.0	60.0
Formula 1	39.0	3.0	83.0	17.0	78.0	8.0	184.7	177.0	184.7	242.7	184.7	155.3
Average	44.3	4181.0	18.4	2390.2	19.1	2639.0	0.0	20.8	0.0	16.9	0.0	24.4

Name	AB		fscipjack		fscipjacksp		heinz-mc		heinz-no-dc	
	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time
i101M1-p	109271.5	87.0	109271.5	0.0	109271.5	1.0	109271.5	7199.0	109271.5	1.0
i101M2-p	319231.6	7202.0	315925.3	8.0	315925.3	13.0	332485.1	7200.0	321714.0	7200.0
i101M3-p	486843.8	7202.0	355625.4	10.0	355625.4	16.0	448429.9	7200.0	368601.0	4794.0
i102M1-p	104065.8	162.0	104065.8	0.0	104065.8	1.0	104065.8	7200.0	104065.8	0.0
i102M2-p	355380.2	7201.0	352538.8	8.0	352538.8	20.0	363517.0	7199.0	354286.8	4518.0
i102M3-p	996161.5	7202.0	454365.9	12.0	454365.9	25.0	533274.3	7199.0	470772.2	7200.0
i103M1-p	139749.4	7201.0	139749.4	1.0	139749.4	1.0	139749.4	7199.0	139749.4	6.0
i103M2-p	590836.9	7202.0	407834.2	6.0	407834.2	12.0	425641.0	7199.0	408521.2	4251.0
i103M3-p	787272.2	7202.0	456125.5	9.0	456125.5	20.0	567154.9	7199.0	467910.3	7199.0
i104M2-p	89920.8	7202.0	89920.8	5.0	89920.8	6.0	89920.8	7199.0	89920.8	7200.0
i104M3-p	97148.8	7202.0	97148.8	5.0	97148.8	8.0	99087.4	7199.0	97158.8	7199.0
i105M1-p	26717.2	14.0	26717.2	1.0	26717.2	0.0	26717.2	7199.0	26717.2	0.0
i105M2-p	106889.2	7201.0	100269.6	6.0	100269.6	7.0	100742.6	7199.0	100273.6	4236.0
i105M3-p	110917.2	7202.0	110351.2	10.0	110351.2	14.0	114535.9	7199.0	112754.1	7199.0
i201M2-p	355732.3	7202.0	355467.7	57.0	355467.7	45.0	359774.2	7199.0	355818.9	5733.0
i201M3-p	839473.0	7203.0	628833.6	75.0	628833.6	181.0	747658.1	7199.0	671352.9	1823.0
i201M4-p	774304.8	7204.0	773398.3	96.0	773398.3	250.0	1078178.2	7199.0	788771.9	1887.0
i202M2-p	289007.9	7203.0	288946.8	56.0	288946.8	57.0	356354.2	7199.0	291443.2	7203.0
i202M3-p	1207417.6	7202.0	419184.2	59.0	419184.2	88.0	589577.6	7199.0	436037.5	6193.0
i202M4-p	2033360.6	7205.0	430034.3	63.0	430034.3	144.0	736072.6	7199.0	490280.1	7204.0
i203M2-p	1055699.2	7203.0	459894.8	56.0	459894.8	61.0	565329.6	7199.0	464629.8	7200.0
i203M3-p	1817008.9	7203.0	643062.0	99.0	643062.0	368.0	931922.4	7199.0	659746.7	2508.0
i203M4-p	3262204.1	7203.0	677733.1	110.0	677733.1	345.0	1239234.0	7199.0	705085.5	1887.0
i204M2-p	161700.5	7204.0	161700.5	24.0	161700.5	29.0	161700.5	7199.0	161700.5	2876.0
i204M3-p	377301.3	7203.0	245287.2	36.0	245287.2	44.0	319133.5	7200.0	308628.3	2161.0
i204M4-p	808502.6	7203.0	245287.2	54.0	245287.2	44.0	319413.6	7199.0	393177.2	7203.0
i205M2-p	620194.2	7203.0	571031.4	42.0	571031.4	51.0	620194.2	7199.0	578326.5	7202.0
i205M3-p	1447119.7	7207.0	672403.1	36.0	672403.1	57.0	1030486.9	7199.0	703922.0	1778.0
i205M4-p	3100970.7	7203.0	713973.6	40.0	713973.6	60.0	1423986.6	7199.0	759424.0	2346.0
Formula 1	33.5		166.5		166.5		3.9		53.1	
Average	593796.1	4388.2	339422.7	16.8	339422.7	25.9	430218.8	7199.1	359953.3	1527.9

Name	heinz-no-pre		mozartballs		polito		schmidt	
	PB	Time	PB	Time	PB	Time	PB	Time
i101M1-p	109271.5	0.0	109271.5	1.0	109271.5	1.0	109271.5	0.0
i101M2-p	319870.6	4130.0	315925.3	16.0	317740.3	1770.0	341795.5	0.0
i101M3-p	382766.8	7199.0	355625.4	26.0	360010.1	1736.0	385703.6	0.0
i102M1-p	104065.8	0.0	104065.8	1.0	104065.8	1.0	104065.8	0.0
i102M2-p	354983.6	4456.0	352538.8	27.0	355233.6	1819.0	363303.1	0.0
i102M3-p	463258.0	5347.0	454365.9	54.0	460633.3	1823.0	506798.4	0.0
i103M1-p	139749.4	5.0	139749.4	1.0	139749.4	2.0	139749.4	0.0
i103M2-p	408931.4	3419.0	407834.2	18.0	411236.9	1742.0	414413.9	0.0
i103M3-p	473988.7	7199.0	456125.5	45.0	461477.0	1738.0	510162.8	0.0
i104M2-p	89920.8	4057.0	89920.8	5.0	89920.8	29.0	89920.8	0.0
i104M3-p	97159.8	3585.0	97148.8	11.0	97148.8	1815.0	97148.8	0.0
i105M1-p	26717.2	0.0	26717.2	1.0	26717.2	1.0	26717.2	0.0
i105M2-p	100290.6	7202.0	100269.6	9.0	100742.6	526.0	100269.6	0.0
i105M3-p	110699.2	4217.0	110351.2	24.0	110692.4	1660.0	114983.2	0.0
i201M2-p	355864.2	1631.0	355467.7	16.0	356195.1	4.0	355467.7	0.0
i201M3-p	669749.8	6149.0	628833.6	127.0	658274.7	189.0	634950.9	0.0
i201M4-p	863997.2	2684.0	773398.3	168.0	794780.3	2864.0	819724.7	0.0
i202M2-p	292211.8	2243.0	288946.8	15.0	301986.9	7.0	288946.8	0.0
i202M3-p	462103.3	1892.0	419184.2	75.0	439390.6	24.0	430188.0	0.0
i202M4-p	503224.3	7204.0	430034.3	117.0	438782.0	2845.0	489456.1	0.0
i203M2-p	469301.8	2080.0	459894.8	16.0	513250.5	12.0	459894.8	0.0
i203M3-p	661024.8	2409.0	643062.0	237.0	660125.5	2768.0	666414.9	0.0
i203M4-p	722233.2	3172.0	677733.1	209.0	698327.7	2839.0	707384.7	0.0
i204M2-p	161700.5	1902.0	161700.5	10.0	161700.5	4.0	161700.5	0.0
i204M3-p	294454.0	7206.0	245287.2	54.0	254631.8	80.0	344623.3	0.0
i204M4-p	312112.0	2310.0	245287.2	53.0	251986.6	1090.0	344623.3	0.0
i205M2-p	586839.6	3254.0	571031.4	14.0	606458.0	21.0	571459.1	0.0
i205M3-p	719515.9	4898.0	672403.1	36.0	683193.4	2848.0	778670.3	0.0
i205M4-p	776123.6	2109.0	713973.6	58.0	723546.2	2843.0	844022.1	0.0
Formula 1	41.1		166.5		64.5		58.5	
Average	359801.3	1249.1	339422.7	22.8	347397.4	182.5	367760.1	0.0

RPCST 8 Threads: Primal Integral (1)

Name	AB		fscipjack		fscipjacksp		heinz-mc		heinz-no-dc	
	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time
i101M1-p	0.0	87.0	0.4	0.0	0.4	1.0	7200.0	7199.0	0.4	1.0
i101M2-p	64.2	7202.0	0.4	8.0	0.4	13.0	434.7	7200.0	162.5	7200.0
i101M3-p	1052.0	7202.0	0.4	10.0	0.4	16.0	1512.9	7200.0	266.1	4794.0
i102M1-p	0.0	162.0	0.4	0.0	0.4	1.0	7200.0	7200.0	0.3	0.0
i102M2-p	49.4	7201.0	0.4	8.0	0.4	20.0	223.5	7199.0	43.2	4518.0
i102M3-p	3916.0	7202.0	0.4	12.0	0.4	25.0	1069.4	7199.0	329.4	7200.0
i103M1-p	0.0	7201.0	0.4	1.0	0.4	1.0	7200.0	7199.0	0.4	6.0
i103M2-p	2230.1	7202.0	0.4	6.0	0.4	12.0	326.8	7199.0	13.9	4251.0
i103M3-p	1662.3	7202.0	0.4	9.0	0.4	20.0	1414.3	7199.0	182.4	7199.0
i104M2-p	0.0	7202.0	0.4	5.0	0.4	6.0	0.1	7199.0	0.4	7200.0
i104M3-p	0.2	7202.0	0.4	5.0	0.4	8.0	179.2	7199.0	64.4	7199.0
i105M1-p	0.0	14.0	0.4	1.0	0.4	0.0	7200.0	7199.0	0.3	0.0
i105M2-p	445.9	7201.0	0.4	6.0	0.4	7.0	43.5	7199.0	2.0	4236.0
i105M3-p	37.0	7202.0	0.4	10.0	0.4	14.0	341.5	7199.0	196.4	7199.0
i201M2-p	5.4	7202.0	1.5	57.0	1.5	45.0	7200.0	7199.0	8.2	5733.0
i201M3-p	1806.6	7203.0	1.6	75.0	1.5	181.0	1214.5	7199.0	460.0	1823.0
i201M4-p	8.6	7204.0	1.4	96.0	1.6	250.0	2042.3	7199.0	216.7	1887.0
i202M2-p	1.5	7203.0	1.6	56.0	1.5	57.0	1414.8	7199.0	84.9	7203.0
i202M3-p	4700.4	7202.0	1.5	59.0	1.6	88.0	2084.4	7199.0	359.2	6193.0
i202M4-p	5677.3	7205.0	1.5	63.0	1.4	144.0	3031.7	7199.0	969.4	7204.0
i203M2-p	4063.5	7203.0	1.5	56.0	1.6	61.0	1443.1	7199.0	86.6	7200.0
i203M3-p	4651.8	7203.0	1.6	99.0	1.7	368.0	2356.5	7199.0	208.6	2508.0
i203M4-p	5691.0	7203.0	1.6	110.0	1.6	345.0	3327.3	7199.0	330.2	1887.0
i204M2-p	0.0	7204.0	2.2	24.0	2.2	29.0	7200.0	7199.0	0.9	2876.0
i204M3-p	2519.2	7203.0	2.4	36.0	2.2	44.0	1706.2	7200.0	1493.8	2161.0
i204M4-p	5015.6	7203.0	2.2	54.0	2.0	44.0	1694.5	7199.0	2795.4	7203.0
i205M2-p	86.5	7203.0	1.6	42.0	1.5	51.0	7200.0	7199.0	161.7	7202.0
i205M3-p	3854.5	7207.0	1.5	36.0	1.7	57.0	2641.4	7199.0	376.0	1778.0
i205M4-p	5542.3	7203.0	1.5	40.0	1.4	60.0	3633.3	7199.0	492.9	2346.0
Formula 1	83.0		109.5		114.5		3.0		43.0	
Average	128.9	4388.2	1.0	16.8	1.0	25.9	1289.2	7199.1	61.6	1527.9

RPCST 8 Threads: Primal Integral (2)

Name	heinz-no-pre		mozartballs		polito		schmidt	
	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time
i101M1-p	0.3	0.0	1.0	1.0	0.1	1.0	0.0	0.0
i101M2-p	93.4	4130.0	0.1	16.0	42.8	1770.0	545.0	0.0
i101M3-p	512.6	7199.0	0.1	26.0	150.7	1736.0	561.5	0.0
i102M1-p	0.3	0.0	1.0	1.0	0.0	1.0	0.0	0.0
i102M2-p	54.6	4456.0	0.1	27.0	55.1	1819.0	213.4	0.0
i102M3-p	152.5	5347.0	0.1	54.0	103.2	1823.0	744.9	0.0
i103M1-p	0.4	5.0	1.2	1.0	0.0	2.0	0.0	0.0
i103M2-p	22.2	3419.0	0.1	18.0	45.1	1742.0	114.3	0.0
i103M3-p	272.4	7199.0	0.3	45.0	130.7	1738.0	762.7	0.0
i104M2-p	0.4	4057.0	0.1	5.0	0.1	29.0	0.0	0.0
i104M3-p	3.9	3585.0	0.7	11.0	1.4	1815.0	0.0	0.0
i105M1-p	0.3	0.0	1.1	1.0	0.0	1.0	0.0	0.0
i105M2-p	82.3	7202.0	0.1	9.0	39.1	526.0	0.0	0.0
i105M3-p	40.0	4217.0	0.5	24.0	53.4	1660.0	290.1	0.0
i201M2-p	11.1	1631.0	0.2	16.0	14.9	4.0	0.1	0.0
i201M3-p	461.7	6149.0	0.5	127.0	324.7	189.0	69.5	0.0
i201M4-p	849.6	2684.0	0.3	168.0	252.5	2864.0	407.0	0.0
i202M2-p	93.3	2243.0	0.2	15.0	311.1	7.0	0.1	0.0
i202M3-p	699.7	1892.0	0.3	75.0	331.9	24.0	184.3	0.0
i202M4-p	1210.7	7204.0	0.3	117.0	168.0	2845.0	874.2	0.0
i203M2-p	167.7	2080.0	0.2	16.0	748.7	12.0	0.1	0.0
i203M3-p	226.7	2409.0	0.2	237.0	219.2	2768.0	252.4	0.0
i203M4-p	499.0	3172.0	0.7	209.0	220.2	2839.0	301.9	0.0
i204M2-p	1.0	1902.0	0.2	10.0	0.8	4.0	0.1	0.0
i204M3-p	1353.2	7206.0	0.2	54.0	264.5	80.0	2075.4	0.0
i204M4-p	1592.5	2310.0	0.2	53.0	200.5	1090.0	2075.4	0.0
i205M2-p	197.4	3254.0	0.2	14.0	420.8	21.0	5.5	0.0
i205M3-p	729.9	4898.0	0.3	36.0	119.9	2848.0	982.7	0.0
i205M4-p	655.6	2109.0	0.9	58.0	96.8	2843.0	1109.5	0.0
Formula 1	31.0		207.0		66.0		97.0	
Average	70.6	1249.1	0.4	22.8	43.5	182.5	38.6	0.0

Name	AB		heinz-no-dc		heinz-no-pre		mozartballs		fscipjack		fscipjacksp	
	gap	Time	gap	Time	gap	Time	gap	Time	gap	Time	gap	Time
i101M1-p	0.0	87.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0
i101M2-p	25.8	7202.0	10.4	7200.0	10.8	4130.0	0.0	16.0	0.0	8.0	0.0	13.0
i101M3-p	49.7	7202.0	18.5	4794.0	19.9	7199.0	0.0	26.0	0.0	10.0	0.0	16.0
i102M1-p	0.0	162.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0
i102M2-p	21.4	7201.0	10.3	4518.0	10.7	4456.0	0.0	27.0	0.0	8.0	0.0	20.0
i102M3-p	67.6	7202.0	14.4	7200.0	14.9	5347.0	0.0	54.0	0.0	12.0	0.0	25.0
i103M1-p	12.4	7201.0	0.0	6.0	0.0	5.0	0.0	1.0	0.0	1.0	0.0	1.0
i103M2-p	43.2	7202.0	7.9	4251.0	8.2	3419.0	0.0	18.0	0.0	6.0	0.0	12.0
i103M3-p	55.7	7202.0	14.4	7199.0	15.6	7199.0	0.0	45.0	0.0	9.0	0.0	20.0
i104M2-p	44.7	7202.0	9.2	7200.0	11.7	4057.0	0.0	5.0	0.0	5.0	0.0	6.0
i104M3-p	46.8	7202.0	11.0	7199.0	14.8	3585.0	0.0	11.0	0.0	5.0	0.0	8.0
i105M1-p	0.0	14.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0
i105M2-p	57.7	7201.0	21.9	4236.0	19.9	7202.0	0.0	9.0	0.0	6.0	0.0	7.0
i105M3-p	60.8	7202.0	28.0	7199.0	29.3	4217.0	0.0	24.0	0.0	10.0	0.0	14.0
i201M2-p	23.3	7202.0	10.8	5733.0	10.8	1631.0	0.0	16.0	0.0	57.0	0.0	45.0
i201M3-p	46.0	7203.0	20.9	1823.0	19.7	6149.0	0.0	127.0	0.0	75.0	0.0	181.0
i201M4-p	31.4	7204.0	23.1	1887.0	29.2	2684.0	0.0	168.0	0.0	96.0	0.0	250.0
i202M2-p	33.9	7203.0	19.0	7203.0	19.7	2243.0	0.0	15.0	0.0	56.0	0.0	57.0
i202M3-p	80.1	7202.0	29.2	6193.0	35.3	1892.0	0.0	75.0	0.0	59.0	0.0	88.0
i202M4-p	88.2	7205.0	38.0	7204.0	37.1	7204.0	0.0	117.0	0.0	63.0	0.0	144.0
i203M2-p	67.6	7203.0	11.6	7200.0	13.4	2080.0	0.0	16.0	0.0	56.0	0.0	61.0
i203M3-p	75.5	7203.0	24.0	2508.0	24.1	2409.0	0.0	237.0	0.0	99.0	0.0	368.0
i203M4-p	86.2	7203.0	24.1	1887.0	24.2	3172.0	0.0	209.0	0.0	110.0	0.0	345.0
i204M2-p	46.5	7204.0	17.6	2876.0	18.0	1902.0	0.0	10.0	0.0	24.0	0.0	29.0
i204M3-p	72.3	7203.0	46.0	2161.0	42.0	7206.0	0.0	54.0	0.0	36.0	0.0	44.0
i204M4-p	87.1	7203.0	57.7	7203.0	46.6	2310.0	0.0	53.0	0.0	54.0	0.0	44.0
i205M2-p	25.7	7203.0	8.8	7202.0	11.1	3254.0	0.0	14.0	0.0	42.0	0.0	51.0
i205M3-p	63.0	7207.0	16.5	1778.0	16.9	4898.0	0.0	36.0	0.0	36.0	0.0	57.0
i205M4-p	82.5	7203.0	19.8	2346.0	21.9	2109.0	0.0	58.0	0.0	40.0	0.0	60.0
Formula 1	39.0	3.0	88.0	18.3	73.0	24.3	184.7	168.7	184.7	241.8	184.7	146.8
Average	48.1	4388.2	17.7	1527.9	18.1	1249.1	0.0	22.8	0.0	16.8	0.0	25.9

PCSPG

Name	AB		heinz-dc		heinz-mc		heinz-no-dc		heinz-no-pre		KTS	
	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time
C13-A-p	236.0	31.0	265.0	7199.4	398.0	7199.0	267.0	7199.3	439.0	7199.2	236.0	7200.0
C19-B-p	146.0	70.0	180.0	7200.3	1015.0	7198.7	180.0	7200.4	6566.0	7199.6	146.0	7200.0
D03-B-p	1509.0	615.0	1611.0	7199.9	2009.0	7199.2	1597.0	7199.9	8514.0	7199.7	1509.0	7200.0
D20-A-p	536.0	473.0	592.0	7203.6	2250.0	7197.8	592.0	7213.3	2490.0	7203.5	536.0	7200.0
P400.3-p	2951725.0	59.0	3114184.0	7199.6	4449851.0	7199.0	3087932.0	7199.3	5125476.0	7199.4	2951725.0	7200.0
P400.4-p	2852956.0	97.0	3094213.0	7199.4	4450178.0	7199.0	3067298.0	7199.3	4962336.0	7199.3	2852956.0	7200.0
K400.7-p	511666.0	7200.0	477785.0	7200.0	499183.0	7199.0	481221.0	7199.2	543106.0	7200.2	474466.0	7200.0
K400.10-p	408913.0	6980.0	395859.0	7199.4	409149.0	7199.0	397358.0	7200.4	448964.0	7199.2	394191.0	7200.0
hc10p-p	60150.0	7200.0	71220.0	7209.4	72801.0	7196.5	71220.0	7902.4	77425.0	7481.8	59816.0	7200.7
hc11u-p	1439.0	7200.0	1317.0	7208.9	1407.0	7188.8	1317.0	7199.6	1555.0	7199.7	1117.0	7200.0
hc12p-p	308227.0	7200.0	280940.0	7227.4	293216.0	7131.5	280940.0	7214.3	308227.0	7337.0	236568.0	7280.7
hc12u-p	3083.0	7201.0	2618.0	7238.6	2825.0	7190.9	2618.0	7202.9	3083.0	7207.4	2221.0	7200.3
bip52nu-p	222.0	7200.0	280.0	7200.8	288.0	7199.0	283.0	7200.7	302.0	7199.5	223.0	7200.0
bip62nu-p	214.0	7200.0	257.0	7199.9	277.0	7198.3	257.0	7199.9	302.0	7200.8	214.0	7200.0
cc3-12nu-p	100.0	7200.0	104.0	7200.9	111.0	7198.6	104.0	7200.6	114.0	7200.6	95.0	7200.0
cc12-2nu-p	575.0	7201.0	616.0	7203.5	693.0	7193.6	616.0	7301.8	699.0	7200.0	567.0	7200.1
i640-001-p	2932.0	8.0	2932.0	95.9	2932.0	7199.5	2932.0	137.2	2932.0	179.2	2932.0	7200.0
i640-221-p	29356.0	7204.0	11766.0	7208.8	14573.0	7197.9	11766.0	7208.0	29356.0	7206.2	8400.0	7200.0
i640-321-p	105188.0	7204.0	41683.0	7233.2	45616.0	7192.6	41683.0	7226.0	106360.0	7239.2	28787.0	7200.0
i640-341-p	29893.0	7201.0	42000.0	7203.7	45429.0	7198.5	41879.0	7202.7	95656.0	7203.0	29666.0	7200.0
a2000RandGraph_2-p	1483.8	341.0	1642.4	7354.6	1927.5	7185.4	1642.4	7467.9	1937.7	8698.3	1487.0	7200.0
a4000RandGraph_3-p	3406.6	998.0	3862.5	7224.5	5762.0	7130.9	3862.5	7207.0	6105.4	7205.7	3410.2	7200.1
a8000RandGraph_1.2-p	4796.5	7201.0	-	7200.0	4790.3	6943.9	-	7200.0	-	7200.0	4756.6	1674.0
a14000RandGraph_1.5-p	10514.2	7202.0	10412.5	10216.8	10512.3	6598.0	10351.6	11094.7	10515.3	11178.1	9577.0	5940.4
handsd04-p	779.1	7202.0	585.1	7992.3	782.1	7089.4	585.1	7879.3	792.9	8006.5	741.0	3450.1
handbd13-p	13.2	7208.0	-	7200.0	-	7200.0	-	7200.0	-	7200.0	13.2	921.4
handsi03-p	56.2	7202.0	56.2	8167.4	56.2	6601.0	56.2	7508.9	56.3	7612.5	56.2	1845.2
handbi07-p	151.0	7209.0	-	7200.0	-	7200.0	-	7200.0	-	7200.0	151.0	20.4
drosophila001-p	8310.9	7202.0	8286.4	7309.7	8286.4	7154.0	8286.4	7429.2	8304.3	7302.5	8278.5	2435.1
HCMV-p	7371.5	2302.0	7376.2	7202.9	7375.5	7162.6	7375.4	7201.5	7385.3	7240.3	7371.5	7200.1
lymphoma-p	3341.9	1090.0	3375.5	7201.2	3393.4	7198.8	3373.7	7201.0	3419.3	7199.9	3341.9	7200.3
metaboli_expr_mice_1-p	11359.1	6179.0	11409.5	7200.7	11491.5	7199.8	11438.5	7211.4	11903.6	7203.0	11347.1	7201.1
Formula 1	67.3		14.6		4.6		13.6		2.6		142.8	
Average	5831.9	2113.5	5695.5	6420.0	7062.5	7140.4	5694.7	6514.4	8935.5	6594.4	5129.0	4842.1

Name	mozartballs		polito		schmidt		scipjack		scipjackspx		staynerd	
	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time
C13-A-p	236.0	1.2	237.0	5.0	245.0	0.0	236.0	8.1	236.0	8.8	236.0	1.4
C19-B-p	146.0	1.9	146.0	7.8	157.0	0.0	146.0	6.8	146.0	8.3	146.0	1.9
D03-B-p	1509.0	1.2	1509.0	11.5	1579.0	0.0	1509.0	19.0	1509.0	19.9	1509.0	1.2
D20-A-p	536.0	4.8	536.0	9.7	542.0	0.1	536.0	293.6	536.0	7198.6	536.0	5.0
P400.3-p	2951725.0	1.0	2951725.0	2.4	3010150.0	0.0	2951725.0	5.5	2951725.0	5.8	2951725.0	0.9
P400.4-p	2852956.0	0.9	2852956.0	10.5	2942801.0	0.0	2852956.0	5.6	2852956.0	5.1	2852956.0	0.9
K400.7-p	474466.0	4.0	523885.0	1.1	476299.0	0.0	474466.0	4.0	474466.0	7.7	474466.0	3.6
K400.10-p	394191.0	4.3	403804.0	38.6	406658.0	0.0	394191.0	5.2	394191.0	12.0	394191.0	4.5
hc10p-p	60016.0	7200.1	59738.0	7200.0	73804.0	0.0	66741.0	7199.2	68742.0	7199.2	59981.0	7200.5
hc11u-p	1116.0	7200.0	1117.0	7200.0	1297.0	0.1	1152.0	7198.4	1157.0	7198.4	1116.0	7200.0
hc12p-p	236254.0	7200.5	234977.0	7200.0	293165.0	0.2	308027.0	7208.0	308027.0	7206.3	235958.0	7203.4
hc12u-p	2223.0	7200.0	2224.0	7200.0	2552.0	0.1	3081.0	7202.3	3081.0	7200.3	2223.0	7200.1
bip52nu-p	222.0	1485.3	223.0	59.7	289.0	0.0	225.0	7188.7	223.0	7190.9	223.0	7200.2
bip62nu-p	214.0	638.5	214.0	23.8	254.0	0.0	217.0	7200.0	217.0	7195.1	214.0	7200.1
cc3-12nu-p	95.0	7200.1	96.0	91.5	108.0	0.1	98.0	7200.7	99.0	7195.0	95.0	7200.3
cc12-2nu-p	577.0	3242.1	567.0	3467.8	658.0	0.1	570.0	7197.4	575.0	7196.6	571.0	7200.9
i640-001-p	2932.0	0.3	3066.0	1.8	3414.0	0.0	2932.0	0.7	2932.0	0.9	2932.0	0.3
i640-221-p	8400.0	5298.6	8603.0	7200.1	11630.0	0.9	28108.0	7201.9	28108.0	7200.1	8427.0	7200.8
i640-321-p	28799.0	7200.3	28797.0	5977.9	41235.0	0.7	105092.0	7197.2	105092.0	7218.3	28800.0	7200.7
i640-341-p	29750.0	7201.8	29692.0	7200.1	41990.0	0.2	29734.0	7197.8	29867.0	7197.5	29732.0	7200.2
a2000RandGraph_2-p	1483.8	5.8	1484.2	11.3	1535.7	0.1	1483.8	7203.3	1483.8	7201.0	1483.8	5.6
a4000RandGraph_3-p	3406.6	4.9	3407.5	17.4	3484.8	0.2	6102.4	7201.5	6102.4	7204.2	3406.6	5.1
a8000RandGraph_1.2-p	4720.0	440.7	4720.5	520.6	4789.8	0.3	4790.8	7204.5	4790.8	7203.5	4720.0	424.3
a14000RandGraph_1.5-p	9475.6	5239.5	9475.7	225.1	9867.3	0.7	10513.8	7202.2	10513.8	7216.7	9475.6	3867.7
handsd04-p	494.4	7202.2	587.7	801.6	496.5	0.5	791.2	7201.1	791.2	7198.8	493.8	7202.5
handbd13-p	13.2	7209.9	13.2	7204.8	13.2	2.1	13.2	7209.5	-	7200.0	13.2	7211.6
handsi03-p	56.1	45.7	56.3	699.1	56.2	0.7	56.2	7200.6	56.2	7196.9	56.1	44.0
handbi07-p	151.0	1309.0	151.1	7201.1	151.0	1.8	151.0	7218.4	-	7200.0	151.0	1574.4
drosophila001-p	8274.0	13.7	8288.3	6178.5	8286.4	0.5	8286.4	7200.4	8286.4	7199.8	8274.0	13.5
HCMV-p	7371.5	2.1	7378.2	32.0	7376.2	0.2	7371.5	761.1	7371.5	761.1	7371.5	2.2
lymphoma-p	3341.9	0.3	3349.1	3.1	3377.4	0.0	3341.9	7198.9	3341.9	7198.5	3341.9	0.3
metaboli_expr_mice_1-p	11346.9	1.5	11901.9	1.5	11407.3	0.0	11832.6	7193.6	11832.6	7193.4	11346.9	1.7
Formula 1	166.5		92.6		35.0		65.7		57.7		169.0	
Average	5058.5	122.1	5130.6	160.1	5601.8	0.2	5903.5	1052.3	5913.3	1225.1	5057.4	143.0

PCSPG 1 Thread: Primal Integral (1)

Name	AB		heinz-dc		heinz-mc		heinz-no-dc		heinz-no-pre		KTS	
	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time
C13-A-p	0.0	31.0	815.2	7199.4	2937.3	7199.0	851.5	7199.3	7200.0	7199.2	0.0	7200.0
C19-B-p	0.0	70.0	1400.8	7200.3	6169.6	7198.7	1399.4	7200.4	7200.0	7199.6	0.0	7200.0
D03-B-p	0.0	615.0	12446.3	7199.9	1848.0	7199.2	407.0	7199.9	7200.0	7199.7	0.0	7200.0
D20-A-p	0.1	473.0	792.4	7203.6	5492.5	7197.8	786.0	7213.3	7200.0	7203.5	0.0	7200.0
P400.3-p	0.0	59.0	188.0	7199.6	2460.1	7199.0	351.3	7199.3	7200.0	7199.4	0.0	7200.0
P400.4-p	0.0	97.0	509.9	7199.4	2587.0	7199.0	521.7	7199.3	7200.0	7199.3	0.0	7200.0
K400.7-p	523.5	7200.0	364.1	7200.0	366.3	7199.0	107.0	7199.2	7200.0	7200.2	0.0	7200.0
K400.10-p	259.2	6980.0	251.8	7199.4	264.1	7199.0	66.1	7200.4	7200.0	7199.2	0.0	7200.0
hc10p-p	49.4	7200.0	1164.4	7209.4	1300.8	7196.5	1164.2	7902.4	7200.0	7481.8	9.9	7200.7
hc11u-p	1616.3	7200.0	1112.4	7208.9	1503.1	7188.8	1111.0	7199.6	7200.0	7199.7	8.4	7200.0
hc12p-p	1711.1	7200.0	1254.9	7227.4	1490.6	7131.5	1248.0	7214.3	7200.0	7337.0	61.5	7280.7
hc12u-p	2013.1	7201.0	1157.3	7238.6	1601.6	7190.9	1151.7	7202.9	7200.0	7207.4	8.5	7200.3
bip52nu-p	0.0	7200.0	1504.2	7200.8	1662.8	7199.0	1553.7	7200.7	7200.0	7199.5	32.9	7200.0
bip62nu-p	0.0	7200.0	1207.1	7199.9	1641.7	7198.3	1206.3	7199.9	7200.0	7200.8	0.2	7200.0
cc3-12nu-p	360.0	7200.0	631.7	7200.9	1039.2	7198.6	626.5	7200.6	7200.0	7200.6	0.3	7200.0
cc12-2nu-p	100.2	7201.0	594.7	7203.5	1315.2	7193.6	589.4	7301.8	7200.0	7200.0	3.9	7200.1
i640-001-p	0.0	8.0	943.1	95.9	0.5	7199.5	3.8	137.2	69.5	179.2	0.0	7200.0
i640-221-p	5139.8	7204.0	2433.2	7208.8	3070.7	7197.9	2074.0	7208.0	7200.0	7206.2	0.4	7200.0
i640-321-p	5229.6	7204.0	2609.7	7233.2	2701.1	7192.6	2255.3	7226.0	7200.0	7239.2	0.4	7200.0
i640-341-p	54.7	7201.0	2128.6	7203.7	2501.2	7198.5	2118.4	7202.7	7200.0	7203.0	0.4	7200.0
a2000RandGraph_2-p	0.0	341.0	729.0	7354.6	1670.4	7185.4	726.3	7467.9	7200.0	8698.3	15.8	7200.0
a4000RandGraph_3-p	0.0	998.0	1942.4	7224.5	3024.8	7130.9	1918.7	7207.0	7200.0	7205.7	12.2	7200.1
a8000RandGraph_1.2-p	114.9	7201.0	7200.0	7200.0	488.0	6949.3	7200.0	7200.0	7200.0	7200.0	55.8	1674.0
a14000RandGraph_1.5-p	711.2	7202.0	771.5	10216.8	1893.8	6598.0	2117.1	11094.7	7200.0	11178.1	79.2	5940.4
handsd04-p	2636.6	7202.0	3346.0	7992.3	2978.0	7089.4	3281.7	7879.3	7200.0	8006.5	2404.4	3450.1
handbd13-p	14.8	7208.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	1.0	921.4
handsi03-p	7.9	7202.0	48.2	8167.4	3307.7	6601.0	3709.3	7508.9	7200.0	7612.5	5.0	1845.2
handbi07-p	0.9	7209.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	1.1	20.4
drosophila001-p	32.0	7202.0	7189.0	7309.7	283.5	7154.0	331.2	7429.2	7200.0	7302.5	4.1	2435.1
HCMV-p	0.0	2302.0	1776.5	7202.9	50.2	7162.6	56.9	7201.5	7200.0	7240.3	0.1	7200.1
lymphoma-p	0.0	1090.0	1677.7	7201.2	117.8	7198.8	78.7	7201.0	7200.0	7199.9	0.0	7200.3
metaboli_expr_mice_1-p	7.8	6179.0	3907.9	7200.7	101.7	7199.8	402.1	7211.4	7200.0	7203.0	1.3	7201.1
Formula 1	146.8		1.0		1.0		6.0		0.0		184.4	
Average	22.0	2113.5	1330.0	6420.0	1107.3	7140.4	771.9	6514.4	6230.8	6594.4	3.1	4842.1

PCSPG 1 Thread: Primal Integral (2)

Name	mozartballs		polito		schmidt		scipjack		scipjacksp		staynerd	
	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time
C13-A-p	0.0	1.2	30.6	5.0	264.5	0.0	0.3	8.1	0.4	8.8	0.0	1.4
C19-B-p	0.2	1.9	0.8	7.8	504.5	0.0	1.0	6.8	1.0	8.3	0.2	1.9
D03-B-p	0.0	1.2	0.1	11.5	319.2	0.0	1.0	19.0	1.0	19.9	0.0	1.2
D20-A-p	0.3	4.8	1.6	9.7	79.8	0.1	17.1	293.6	16.9	7198.6	0.3	5.0
P400.3-p	0.0	1.0	0.1	2.4	139.8	0.0	0.4	5.5	0.3	5.8	0.0	0.9
P400.4-p	0.0	0.9	0.1	10.5	219.8	0.0	0.3	5.6	0.3	5.1	0.0	0.9
K400.7-p	0.0	4.0	679.3	1.1	27.7	0.0	0.2	4.0	0.3	7.7	0.0	3.6
K400.10-p	0.0	4.3	171.5	38.6	220.7	0.0	0.1	5.2	0.4	12.0	0.0	4.5
hc10p-p	35.8	7200.1	0.6	7200.0	1372.2	0.0	850.2	7199.2	1010.9	7199.2	31.7	7200.5
hc11u-p	1.0	7200.0	11.1	7200.0	1004.8	0.1	730.1	7198.4	752.8	7198.4	1.0	7200.0
hc12p-p	52.4	7200.5	7.0	7200.0	1429.2	0.2	1714.8	7208.0	1714.7	7206.3	48.2	7203.4
hc12u-p	7.5	7200.0	13.0	7200.0	934.0	0.1	2017.0	7202.3	2017.0	7200.3	7.5	7200.1
bip52nu-p	1.6	1485.3	33.1	59.7	1669.2	0.0	103.7	7188.7	49.1	7190.9	32.6	7200.2
bip62nu-p	0.4	638.5	0.7	23.8	1133.9	0.0	108.0	7200.0	104.9	7195.1	0.3	7200.1
cc3-12nu-p	0.4	7200.1	77.5	91.5	866.8	0.1	221.5	7200.7	291.9	7195.0	0.4	7200.3
cc12-2nu-p	129.2	3242.1	2.3	3467.8	995.8	0.1	68.5	7197.4	123.2	7196.6	56.4	7200.9
i640-001-p	0.0	0.3	314.8	1.8	1016.5	0.0	0.0	0.7	0.0	0.9	0.0	0.3
i640-221-p	14.4	5298.6	186.6	7200.1	2000.3	0.9	5050.2	7201.9	5050.2	7200.1	25.8	7200.8
i640-321-p	7.1	7200.3	18.2	5977.9	2174.0	0.7	5229.5	7197.2	5229.5	7218.3	8.3	7200.7
i640-341-p	22.0	7201.8	9.4	7200.1	2113.3	0.2	59.5	7197.8	74.8	7197.5	16.8	7200.2
a2000RandGraph_2-p	0.2	5.8	2.8	11.3	243.3	0.1	1093.1	7203.3	1094.5	7201.0	0.2	5.6
a4000RandGraph_3-p	0.5	4.9	4.1	17.4	161.6	0.2	3199.2	7201.5	3199.5	7204.2	0.5	5.1
a8000RandGraph_1.1.2-p	1.0	440.7	6.3	520.6	105.3	0.3	255.8	7204.5	254.2	7203.5	1.1	424.3
a14000RandGraph_1.5-p	3.7	5239.5	9.8	225.1	286.4	0.7	1181.5	7202.2	1168.5	7216.7	5.7	3867.7
handsd04-p	10.6	7202.2	1159.6	801.6	40.2	0.5	2737.3	7201.1	2737.2	7198.8	1.4	7202.5
handbd13-p	8.6	7209.9	123.0	7204.8	2.1	2.1	747.8	7209.5	743.5	7200.0	8.4	7211.6
handsi03-p	1.3	45.7	31.6	699.1	1.1	0.7	734.7	7200.6	733.8	7196.9	1.3	44.0
handbi07-p	6.9	1309.0	111.7	7201.1	2.2	1.8	735.5	7218.4	741.1	7200.0	6.7	1574.4
drosophila001-p	1.1	13.7	19.3	6178.5	11.3	0.5	38.7	7200.4	39.9	7199.8	1.0	13.5
HCMV-p	0.3	2.1	8.8	32.0	4.8	0.2	8.2	761.1	8.0	761.1	0.3	2.2
lymphoma-p	0.1	0.3	16.2	3.1	75.7	0.0	988.5	7198.9	992.3	7198.5	0.1	0.3
metaboli_expr_mice_1-p	0.1	1.5	336.3	1.5	38.2	0.0	298.6	7193.6	298.3	7193.4	0.1	1.7
Formula 1	155.2		89.0		45.0		25.2		19.2		159.2	
Average	2.2	122.1	16.7	160.1	185.1	0.2	101.0	1052.3	103.5	1225.1	2.2	143.0

Name	AB		heinz-dc		mozartballs		scipjack		scipjacksp		staynerd	
	gap	Time	gap	Time	gap	Time	gap	Time	gap	Time	gap	Time
C13-A-p	0.0	31.0	26.2	7199.4	0.0	1.2	0.0	8.1	0.0	8.8	0.0	1.4
C19-B-p	0.0	70.0	37.8	7200.3	0.0	1.9	0.0	6.8	0.0	8.3	0.0	1.9
D03-B-p	0.0	615.0	10.9	7199.9	0.0	1.2	0.0	19.0	0.0	19.9	0.0	1.2
D20-A-p	0.0	473.0	41.3	7203.6	0.0	4.8	0.0	293.6	0.2	7198.6	0.0	5.0
P400.3-p	42.4	59.0	15.5	7199.6	0.0	1.0	0.0	5.5	0.0	5.8	0.0	0.9
P400.4-p	42.5	97.0	19.9	7199.4	0.0	0.9	0.0	5.6	0.0	5.1	0.0	0.9
K400.7-p	33.0	7200.0	24.3	7200.0	0.0	4.0	0.0	4.0	0.0	7.7	0.0	3.6
K400.10-p	8.9	6980.0	19.6	7199.4	0.0	4.3	0.0	5.2	0.0	12.0	0.0	4.5
hc10p-p	2.1	7200.0	27.6	7209.4	1.8	7200.1	12.0	7199.2	14.6	7199.2	100.0	7200.5
hc11u-p	23.3	7200.0	22.3	7208.9	1.1	7200.0	4.3	7198.4	4.8	7198.4	100.0	7200.0
hc12p-p	100.0	7200.0	26.7	7227.4	1.8	7200.5	25.1	7208.0	25.1	7206.3	100.0	7203.4
hc12u-p	100.0	7201.0	21.8	7238.6	1.4	7200.0	28.9	7202.3	28.9	7200.3	100.0	7200.1
bip52nu-p	0.5	7200.0	28.9	7200.8	0.0	1485.3	2.4	7188.7	1.5	7190.9	100.0	7200.2
bip62nu-p	1.4	7200.0	22.6	7199.9	0.0	638.5	3.2	7200.0	3.2	7195.1	100.0	7200.1
cc3-12nu-p	12.0	7200.0	29.8	7200.9	7.4	7200.1	7.7	7200.7	9.4	7195.0	100.0	7200.3
cc12-2nu-p	3.5	7201.0	25.1	7203.5	4.5	3242.1	2.0	7197.4	2.9	7196.6	100.0	7200.9
i640-001-p	0.0	8.0	0.0	95.9	0.0	0.3	0.0	0.7	0.0	0.9	0.0	0.3
i640-221-p	100.0	7204.0	46.1	7208.8	0.0	5298.6	70.5	7201.9	70.5	7200.1	100.0	7200.8
i640-321-p	100.0	7204.0	47.9	7233.2	0.4	7200.3	72.8	7197.2	72.8	7218.3	100.0	7200.7
i640-341-p	1.7	7201.0	47.4	7203.7	0.7	7201.8	0.9	7197.8	1.3	7197.5	100.0	7200.2
a2000RandGraph_2-p	0.0	341.0	45.2	7354.6	0.0	5.8	0.1	7203.3	0.1	7201.0	0.0	5.6
a4000RandGraph_3-p	0.0	998.0	50.5	7224.5	0.0	4.9	44.2	7201.5	44.2	7204.2	0.0	5.1
a8000RandGraph_1.1.2-p	100.0	7201.0	100.0	7200.0	0.0	440.7	1.5	7204.5	1.5	7203.5	0.0	424.3
a14000RandGraph_1.5-p	100.0	7202.0	42.3	10216.8	0.0	5239.5	9.9	7202.2	9.9	7216.7	0.0	3867.7
handsd04-p	41.3	7202.0	43.7	7992.3	1.0	7202.2	38.9	7201.1	38.9	7198.8	1.2	7202.5
handbd13-p	100.0	7208.0	100.0	7200.0	2.4	7209.9	100.0	7209.5	100.0	7200.0	2.4	7211.6
handsi03-p	1.0	7202.0	7.5	8167.4	0.0	45.7	2.2	7200.6	2.3	7196.9	0.0	44.0
handbi07-p	1.5	7209.0	100.0	7200.0	0.0	1309.0	100.0	7218.4	100.0	7200.0	0.0	1574.4
drosophila001-p	100.0	7202.0	3.8	7309.7	0.0	13.7	0.3	7200.4	0.2	7199.8	0.0	13.5
HCMV-p	0.2	2302.0	5.1	7202.9	0.0	2.1	0.0	761.1	0.0	761.1	0.0	2.2
lymphoma-p	0.0	1090.0	6.3	7201.2	0.0	0.3	0.2	7198.9	0.2	7198.5	0.0	0.3
metaboli_expr_mice_1-p	4.6	6179.0	2.6	7200.7	0.0	1.5	4.6	7193.6	4.6	7193.4	0.0	1.7
Formula 1	87.1	11.0	65.3	1.0	244.8	181.0	135.8	39.5	123.1	28.5	152.8	152.0
Average	31.9	2113.5	32.8	6420.0	0.7	122.1	16.6	1052.3	16.8	1225.1	34.5	143.0

PCSPG 8 Threads: PB (1)

Name	AB		fscipjack		fscipjacksp		hedgkiller		heinz-dc		heinz-no-dc	
	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time
C13-A-p	236.0	29.0	236.0	8.2	236.0	9.3	236.0	2.0	260.0	7199.7	261.0	7199.6
C19-B-p	146.0	61.0	146.0	7.0	146.0	8.0	146.0	2.0	177.0	7201.4	175.0	7202.2
D03-B-p	1509.0	2212.0	1509.0	19.2	1509.0	20.3	1509.0	2.0	1605.0	7200.2	1577.0	7200.2
D20-A-p	536.0	168.0	536.0	293.8	536.0	49623.6	536.0	6.0	616.0	7216.4	616.0	7218.1
P400.3-p	2951725.0	102.0	2951725.0	5.6	2951725.0	5.9	2951725.0	2.0	3099339.0	7199.6	3115630.0	7199.5
P400.4-p	2852956.0	155.0	2852956.0	5.3	2852956.0	5.1	2852956.0	2.1	3072652.0	7199.6	3051909.0	7199.5
K400.7-p	-	7200.0	474466.0	4.0	474466.0	7.6	474466.0	4.0	479554.0	7200.9	480239.0	7209.1
K400.10-p	408913.0	6980.0	394191.0	5.3	394191.0	12.5	394191.0	6.0	400718.0	7199.6	396384.0	7127.9
hc10p-p	60162.0	7240.0	60184.0	55948.4	60386.0	55447.4	59983.0	7201.9	-	7200.0	-	7200.0
hc11u-p	1186.0	7200.0	1157.0	48766.2	1157.0	7214.0	1118.0	7201.1	1317.0	7203.4	1317.0	7216.5
hc12p-p	308227.0	7201.0	308027.0	46491.3	308027.0	34518.5	235782.0	7205.3	280940.0	7241.8	280940.0	7208.2
hc12u-p	3083.0	7201.0	3081.0	50147.9	3081.0	49152.8	2224.0	7205.5	-	7200.0	2596.0	7205.3
bip52nu-p	223.0	7204.0	223.0	55182.9	224.0	55936.1	222.0	1295.5	270.0	7201.4	276.0	7201.5
bip62nu-p	214.0	7201.0	218.0	27201.4	218.0	41684.9	214.0	403.7	258.0	7204.1	258.0	7204.1
cc3-12nu-p	98.0	7202.0	98.0	23521.2	99.0	7215.4	95.0	7201.7	104.0	7201.6	103.0	7201.9
cc12-2nu-p	697.0	7200.0	571.0	37043.0	575.0	7196.8	574.0	7202.3	616.0	7213.6	616.0	7217.5
i640-001-p	2932.0	6.0	2932.0	0.6	2932.0	0.8	2932.0	1.0	2932.0	145.1	2932.0	175.5
i640-221-p	8502.0	7204.0	28108.0	7198.6	28108.0	7224.1	8400.0	5985.5	11766.0	7218.5	11760.0	7210.4
i640-321-p	29000.0	7206.0	105092.0	10986.9	105092.0	7207.2	28798.0	7204.0	41683.0	7241.5	41660.0	7227.5
i640-341-p	29906.0	7201.0	30255.0	53105.1	30208.0	47487.2	29730.0	7202.4	42063.0	7206.2	42058.0	7206.4
a2000RandGraph_2-p	1483.8	684.0	1483.8	7203.1	1483.8	7200.3	1483.8	7.0	1642.4	7420.5	1635.4	7454.4
a4000RandGraph_3-p	3406.6	1177.0	6102.4	7203.8	6102.4	7202.0	3406.6	6.0	3862.5	7501.0	3862.5	7373.3
a8000RandGraph_1.2-p	4796.5	7202.0	4790.8	7206.7	4790.8	7202.4	4720.0	274.4	-	7200.0	-	7200.0
a14000RandGraph_1.5-p	10514.2	9934.0	10513.8	7217.7	10513.8	7227.5	9475.6	1372.8	10412.5	10204.7	10351.6	11108.9
handsd04-p	-	7200.0	791.2	7201.4	-	7200.0	494.1	7204.4	585.1	8054.2	585.1	7928.5
handbd13-p	13.2	7209.0	13.2	7210.3	-	7200.0	13.2	7214.2	-	7200.0	-	7200.0
handsi03-p	56.2	7250.0	-	7200.0	-	7200.0	56.1	58.3	56.2	8437.3	56.2	7475.5
handbi07-p	-	7200.0	151.0	7206.0	-	7200.0	151.0	1469.4	-	7200.0	-	7200.0
drosophila001-p	8310.9	7202.0	-	7200.0	-	7200.0	8274.0	16.1	8286.4	7223.4	-	7200.0
HCMV-p	7371.5	2672.0	-	7200.0	7371.5	758.8	7371.5	3.0	-	7200.0	-	7200.0
lymphoma-p	3341.9	2647.0	3341.9	7198.3	3341.9	7198.3	3341.9	1.0	3369.2	7209.8	3374.3	7213.0
metaboli_expr_mice_1-p	11428.5	6182.0	11832.6	7193.6	11832.6	7194.5	11346.9	4.0	11372.6	7201.3	11425.1	7213.7
Formula 1	52.6		48.6		45.5		143.7		9.1		8.1	
Average	5172.0	2323.6	5892.6	1882.4	5898.0	1850.0	5003.3	134.9	5707.8	6518.5	5700.0	6541.0

PCSPG 8 Threads: PB (2)

Name	heinz-no-pre		mozartballs		mozartduet		polito		staynerd	
	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time
C13-A-p	439.0	7203.6	236.0	1.6	236.0	2.2	237.0	33.2	236.0	2.0
C19-B-p	6566.0	7201.3	146.0	1.9	146.0	2.0	146.0	29.2	146.0	2.0
D03-B-p	8514.0	7200.4	1509.0	1.0	1509.0	2.1	1510.0	41.4	1509.0	1.1
D20-A-p	2490.0	7220.4	536.0	5.1	536.0	6.0	536.0	16.4	536.0	5.0
P400.3-p	5125476.0	7199.5	2951725.0	1.0	2951725.0	1.0	2951725.0	17.2	2951725.0	1.0
P400.4-p	4962336.0	7199.6	2852956.0	1.1	2852956.0	1.0	2852956.0	23.5	2852956.0	1.2
K400.7-p	543106.0	7207.5	474466.0	3.1	474466.0	5.0	523885.0	8.9	474466.0	4.9
K400.10-p	448964.0	6951.5	394191.0	4.4	394191.0	5.0	406365.0	517.1	394191.0	6.4
hc10p-p	-	7200.0	59958.0	7200.2	59941.0	7202.1	59813.0	7200.0	59958.0	7201.6
hc11u-p	1555.0	7202.0	1117.0	5966.9	1117.0	7200.9	1120.0	7200.0	1117.0	7202.4
hc12p-p	308227.0	7340.2	236420.0	7201.0	235887.0	7205.0	235043.0	7200.1	235984.0	7205.3
hc12u-p	3083.0	10009.9	2222.0	7200.3	2222.0	7201.2	2227.0	7200.0	2223.0	7200.2
bip52nu-p	302.0	7201.0	222.0	613.5	222.0	2857.5	223.0	79.0	222.0	7200.3
bip62nu-p	302.0	7201.4	214.0	310.9	214.0	1198.4	214.0	55.2	214.0	7200.3
cc3-12nu-p	114.0	7201.5	95.0	7200.4	95.0	7201.6	95.0	108.7	95.0	7200.6
cc12-2nu-p	699.0	7199.9	581.0	1056.1	570.0	7201.3	567.0	7200.1	572.0	7201.2
i640-001-p	2932.0	54.3	2932.0	0.3	2932.0	1.0	3053.0	19.4	2932.0	0.3
i640-221-p	29356.0	7213.1	8400.0	5220.1	8400.0	5829.2	8626.0	7200.1	8427.0	7204.6
i640-321-p	106360.0	7230.8	28794.0	7202.3	28798.0	7204.8	28821.0	7200.2	28809.0	7204.8
i640-341-p	95656.0	7207.1	29702.0	7202.0	29757.0	7202.9	29713.0	6152.4	29748.0	7200.9
a2000RandGraph_2-p	1937.7	8652.0	1483.8	6.4	1483.8	7.0	1484.2	20.2	1483.8	6.0
a4000RandGraph_3-p	6105.4	7426.4	3406.6	5.3	3406.6	7.1	3407.5	21.9	3406.6	5.6
a8000RandGraph_1.2-p	-	7200.0	4720.0	198.1	4720.0	388.0	4722.8	187.4	4720.0	443.9
a14000RandGraph_1.5-p	10515.3	11081.8	9475.6	2815.7	9475.6	3802.3	9475.6	259.6	9475.6	1204.1
handsd04-p	792.9	8022.1	494.4	7203.1	494.3	7204.3	584.1	7200.9	494.9	7203.4
handbd13-p	-	7200.0	13.2	7214.6	13.2	7218.3	18.1	7208.1	13.2	7216.2
handsi03-p	56.3	7505.5	56.1	47.4	56.1	59.4	56.3	1271.7	56.1	48.8
handbi07-p	-	7200.0	151.0	1453.8	151.0	1358.8	151.1	7217.6	151.0	1636.0
drosophila001-p	8304.3	7456.9	8274.0	13.4	8274.0	15.1	8288.3	7200.1	8274.0	13.6
HCMV-p	-	7200.0	7371.5	1.9	7371.5	3.0	7378.2	133.6	7371.5	2.1
lymphoma-p	3419.3	7216.2	3341.9	0.3	3341.9	1.0	3349.1	29.9	3341.9	0.3
metaboli_expr_mice_1-p	11903.6	7218.0	11346.9	2.0	11346.9	3.0	11901.9	7.3	11346.9	2.0
Formula 1	2.6		154.9		158.4		75.3		133.2	
Average	10034.1	6412.1	5006.3	107.9	5001.9	145.0	5036.2	326.5	5003.5	143.9

PCSPG 8 Threads: Primal Integral (1)

Name	AB		fscipjack		fscipjacksp		hedgekiller		heinz-dc		heinz-no-dc	
	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time
C13-A-p	0.0	29.0	0.3	8.2	0.4	9.3	0.1	2.0	675.6	7199.7	797.2	7199.6
C19-B-p	0.0	61.0	1.0	7.0	0.9	8.0	0.2	2.0	1325.3	7201.4	1204.9	7202.2
D03-B-p	0.3	2212.0	1.1	19.2	1.1	20.3	0.0	2.0	12421.2	7200.2	314.9	7200.2
D20-A-p	0.0	168.0	16.8	293.8	16.9	49623.6	0.4	6.0	971.6	7216.4	966.6	7218.1
P400.3-p	0.0	102.0	0.4	5.6	0.4	5.9	0.0	2.0	149.8	7199.6	398.0	7199.5
P400.4-p	0.0	155.0	0.3	5.3	0.3	5.1	0.0	2.1	442.7	7199.6	488.8	7199.5
K400.7-p	7200.0	7200.0	0.2	4.0	0.3	7.6	0.0	4.0	337.3	7200.9	98.2	7209.1
K400.10-p	259.2	6980.0	0.2	5.3	0.3	12.5	0.0	6.0	177.5	7199.6	47.1	7127.9
hc10p-p	51.0	7240.0	365.8	55948.4	431.0	55447.4	32.4	7201.9	1164.3	7200.0	1164.4	7200.0
hc11u-p	425.0	7200.0	752.1	48766.2	753.4	7214.0	13.6	7201.1	1111.8	7203.4	1111.4	7216.5
hc12p-p	1711.1	7201.0	1714.7	46491.3	1715.0	34518.5	54.4	7205.3	1254.1	7241.8	1247.8	7208.2
hc12u-p	2013.1	7201.0	2016.8	50147.9	2017.1	49152.8	10.8	7205.5	1107.6	7200.0	1101.0	7205.3
bip52nu-p	32.3	7204.0	40.4	55182.9	120.9	55936.1	0.3	1295.5	1282.4	7201.4	1410.3	7201.5
bip62nu-p	0.0	7201.0	135.4	27201.4	135.7	41684.9	0.3	403.7	1230.3	7204.1	1229.5	7204.1
cc3-12nu-p	220.5	7202.0	221.6	23521.2	291.9	7215.4	0.4	7201.7	631.5	7201.6	565.3	7201.9
cc12-2nu-p	1342.9	7200.0	75.9	37043.0	123.1	7196.8	89.3	7202.3	593.3	7213.6	589.0	7217.5
i640-001-p	0.0	6.0	0.0	0.6	0.0	0.8	0.0	1.0	943.1	145.1	3.9	175.5
i640-221-p	86.4	7204.0	5050.1	7198.6	5050.0	7224.1	4.5	5985.5	2431.5	7218.5	2070.2	7210.4
i640-321-p	52.9	7206.0	5229.6	10986.9	5229.5	7207.2	6.2	7204.0	2604.6	7241.5	2252.2	7227.5
i640-341-p	57.8	7201.0	151.2	53105.1	141.0	47487.2	16.3	7202.4	2137.4	7206.2	2128.0	7206.4
a2000RandGraph_2-p	0.0	684.0	1091.7	7203.1	1091.3	7200.3	0.2	7.0	728.3	7420.5	695.7	7454.4
a4000RandGraph_3-p	0.0	1177.0	3199.4	7203.8	3199.3	7202.0	0.5	6.0	1950.8	7501.0	1936.8	7373.3
a8000RandGraph_1.2-p	114.9	7202.0	249.8	7206.7	259.1	7202.4	1.0	274.4	7200.0	7200.0	7200.0	7200.0
a14000RandGraph_1.5-p	711.2	9934.0	1175.8	7217.7	1180.4	7227.5	4.1	1372.8	770.2	10204.7	2104.8	11108.9
handsd04-p	7200.0	7200.0	2737.7	7201.4	7200.0	7200.0	8.4	7204.4	3363.6	8054.2	3292.3	7928.5
handbd13-p	8.2	7209.0	749.6	7210.3	752.2	7200.0	10.2	7214.2	7200.0	7200.0	7200.0	7200.0
handsi03-p	7.9	7250.0	7200.0	7200.0	7200.0	7200.0	1.5	58.3	47.7	8437.3	3682.3	7475.5
handbi07-p	7200.0	7200.0	739.0	7206.0	733.8	7200.0	8.1	1469.4	7200.0	7200.0	7200.0	7200.0
drosophila001-p	32.0	7202.0	7200.0	7200.0	7200.0	7200.0	1.1	16.1	7189.0	7223.4	323.0	7200.0
HCMV-p	0.0	2672.0	7200.0	7200.0	8.1	758.8	0.3	3.0	1776.6	7200.0	55.7	7200.0
lymphoma-p	0.0	2647.0	992.7	7198.3	995.5	7198.3	0.1	1.0	1689.8	7209.8	77.8	7213.0
metaboli_expr_mice_1-p	51.4	6182.0	298.6	7193.6	298.4	7194.5	0.1	4.0	3930.0	7201.3	397.2	7213.7
Formula 1	134.7		19.2		14.2		142.6		0.0		2.0	
Average	29.5	2323.6	155.9	1882.4	139.2	1850.0	2.2	134.9	1288.6	6518.5	749.5	6541.0

PCSPG 8 Threads: Primal Integral (2)

Name	heinz-no-pre		mozartballs		mozartduet		polito		staynerd	
	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time
C13-A-p	7200.0	7203.6	0.1	1.6	0.1	2.2	31.6	33.2	0.0	2.0
C19-B-p	7200.0	7201.3	0.2	1.9	0.2	2.0	2.5	29.2	0.2	2.0
D03-B-p	7200.0	7200.4	0.0	1.0	0.0	2.1	5.6	41.4	0.0	1.1
D20-A-p	7200.0	7220.4	0.3	5.1	0.4	6.0	3.3	16.4	0.3	5.0
P400.3-p	7200.0	7199.5	0.0	1.0	0.0	1.0	0.7	17.2	0.0	1.0
P400.4-p	7200.0	7199.6	0.0	1.1	0.0	1.0	0.7	23.5	0.0	1.2
K400.7-p	7200.0	7207.5	0.0	3.1	0.0	5.0	679.8	8.9	0.0	4.9
K400.10-p	7200.0	6951.5	0.0	4.4	0.0	5.0	216.7	517.1	0.0	6.4
hc10p-p	7200.0	7200.0	30.4	7200.2	27.3	7202.1	13.6	7200.0	30.6	7201.6
hc11u-p	7200.0	7202.0	7.5	5966.9	7.3	7200.9	28.6	7200.0	7.5	7202.4
hc12p-p	7200.0	7340.2	63.1	7201.0	56.2	7205.0	9.3	7200.1	55.1	7205.3
hc12u-p	7200.0	10009.9	4.6	7200.3	4.8	7201.2	24.4	7200.0	7.5	7200.2
bip52nu-p	7200.0	7201.0	0.9	613.5	0.3	2857.5	34.5	79.0	0.7	7200.3
bip62nu-p	7200.0	7201.4	0.2	310.9	0.2	1198.4	2.2	55.2	0.3	7200.3
cc3-12nu-p	7200.0	7201.5	0.4	7200.4	0.4	7201.6	4.1	108.7	0.4	7200.6
cc12-2nu-p	7200.0	7199.9	175.5	1056.1	39.7	7201.3	10.6	7200.1	64.4	7201.2
i640-001-p	20.8	54.3	0.0	0.3	0.0	1.0	285.8	19.4	0.0	0.3
i640-221-p	7200.0	7213.1	14.6	5220.1	13.2	5829.2	210.7	7200.1	25.7	7204.6
i640-321-p	7200.0	7230.8	6.5	7202.3	6.2	7204.8	29.4	7200.2	8.3	7204.8
i640-341-p	7200.0	7207.1	9.7	7202.0	22.7	7202.9	16.5	6152.4	20.6	7200.9
a2000RandGraph_2-p	7200.0	8652.0	0.2	6.4	0.2	7.0	4.8	20.2	0.2	6.0
a4000RandGraph_3-p	7200.0	7426.4	0.5	5.3	0.5	7.1	6.0	21.9	0.5	5.6
a8000RandGraph_1.2-p	7200.0	7200.0	0.9	198.1	1.2	388.0	12.1	187.4	1.0	443.9
a14000RandGraph_1.5-p	7200.0	11081.8	3.6	2815.7	4.2	3802.3	12.6	259.6	4.5	1204.1
handsd04-p	7200.0	8022.1	10.7	7203.1	9.3	7204.3	1142.5	7200.9	17.8	7203.4
handbd13-p	7200.0	7200.0	8.7	7214.6	9.2	7218.3	2007.0	7208.1	10.1	7216.2
handsi03-p	7200.0	7505.5	1.3	47.4	1.6	59.4	41.3	1271.7	1.3	48.8
handbi07-p	7200.0	7200.0	7.0	1453.8	8.1	1358.8	163.7	7217.6	7.0	1636.0
drosophila001-p	7200.0	7456.9	0.9	13.4	1.0	15.1	22.4	7200.1	0.9	13.6
HCMV-p	7200.0	7200.0	0.3	1.9	0.3	3.0	10.8	133.6	0.3	2.1
lymphoma-p	7200.0	7216.2	0.1	0.3	0.1	1.0	17.6	29.9	0.1	0.3
metabol_expr_mice_1-p	7200.0	7218.0	0.1	2.0	0.1	3.0	337.9	7.3	0.1	2.0
Formula 1	0.0		172.2		146.1		60.0		141.1	
Average	6006.3	6412.1	2.2	107.9	2.1	145.0	26.0	326.5	2.3	143.9

PCSPG 8 Thread: Exact (1)

Name	AB		fscipjack		fscipjacksp		hedgekiller		heinz-dc	
	gap	Time	gap	Time	gap	Time	gap	Time	gap	Time
C13-A-p	0.0	29.0	0.0	8.2	0.0	9.3	0.0	2.0	24.8	7199.7
C19-B-p	0.0	61.0	0.0	7.0	0.0	8.0	0.0	2.0	36.7	7201.4
D03-B-p	0.0	2212.0	0.0	19.2	0.0	20.3	0.0	2.0	10.7	7200.2
D20-A-p	0.0	168.0	0.0	293.8	0.2	49623.6	0.0	6.0	41.8	7216.4
P400.3-p	42.4	102.0	0.0	5.6	0.0	5.9	0.0	2.0	13.9	7199.6
P400.4-p	42.5	155.0	0.0	5.3	0.0	5.1	0.0	2.1	19.8	7199.6
K400.7-p	100.0	7200.0	0.0	4.0	0.0	7.6	0.0	4.0	24.4	7200.9
K400.10-p	8.9	6980.0	0.0	5.3	0.0	12.5	0.0	6.0	22.5	7199.6
hc10p-p	2.1	7240.0	2.4	55948.4	3.0	55447.4	1.8	7201.9	100.0	7200.0
hc11u-p	7.0	7200.0	4.7	48766.2	100.0	7214.0	1.3	7201.1	22.3	7203.4
hc12p-p	100.0	7201.0	25.1	46491.3	25.2	34518.5	1.6	7205.3	26.7	7241.8
hc12u-p	100.0	7201.0	28.9	50147.9	28.9	49152.8	1.4	7205.5	100.0	7200.0
bip52nu-p	0.9	7204.0	1.4	55182.9	1.9	55936.1	0.0	1295.5	26.3	7201.4
bip62nu-p	1.4	7201.0	100.0	27201.4	3.7	41684.9	0.0	403.7	22.9	7204.1
cc3-12nu-p	10.2	7202.0	100.0	23521.2	26.3	7215.4	7.4	7201.7	29.8	7201.6
cc12-2nu-p	20.4	7200.0	2.4	37043.0	2.9	7196.8	4.0	7202.3	25.1	7213.6
i640-001-p	0.0	6.0	0.0	0.6	0.0	0.8	0.0	1.0	0.0	145.1
i640-221-p	2.7	7204.0	70.5	7198.6	100.0	7224.1	0.0	5985.5	46.1	7218.5
i640-321-p	1.4	7206.0	100.0	10986.9	72.8	7207.2	0.4	7204.0	47.9	7241.5
i640-341-p	1.7	7201.0	2.6	53105.1	2.4	47487.2	0.7	7202.4	47.4	7206.2
a2000RandGraph_2-p	0.0	684.0	0.1	7203.1	0.1	7200.3	0.0	7.0	45.0	7420.5
a4000RandGraph_3-p	0.0	1177.0	44.2	7203.8	44.2	7202.0	0.0	6.0	50.4	7501.0
a8000RandGraph_1.1.2-p	100.0	7202.0	1.5	7206.7	1.5	7202.4	0.0	274.4	100.0	7200.0
a14000RandGraph_1.5-p	100.0	9934.0	9.9	7217.7	9.9	7227.5	0.0	1372.8	42.3	10204.7
handsd04-p	100.0	7200.0	38.9	7201.4	100.0	7200.0	1.2	7204.4	43.7	8054.2
handbd13-p	4.8	7209.0	100.0	7210.3	100.0	7200.0	2.6	7214.2	100.0	7200.0
handsi03-p	1.0	7250.0	100.0	7200.0	100.0	7200.0	0.0	58.3	7.5	8437.3
handbi07-p	100.0	7200.0	100.0	7206.0	100.0	7200.0	0.0	1469.4	100.0	7200.0
drosophila001-p	100.0	7202.0	100.0	7200.0	100.0	7200.0	0.0	16.1	3.9	7223.4
HCMV-p	0.2	2672.0	100.0	7200.0	0.0	758.8	0.0	3.0	100.0	7200.0
lymphoma-p	0.0	2647.0	0.2	7198.3	0.2	7198.3	0.0	1.0	6.1	7209.8
metaboli_expr_mice_1-p	4.0	6182.0	4.6	7193.6	4.6	7194.5	0.0	4.0	2.2	7201.3
Formula 1	54.4	2.0	66.2	23.0	61.9	13.0	163.4	88.8	17.4	0.0
Average	29.7	2323.6	32.4	1882.4	29.0	1850.0	0.7	134.9	40.3	6518.5

PCSPG 8 Thread: Exact (2)

Name	heinz-no-pre		mozartballs		mozartduet		staynerd	
	gap	Time	gap	Time	gap	Time	gap	Time
C13-A-p	100.0	7203.6	0.0	1.6	0.0	2.2	0.0	2.0
C19-B-p	100.0	7201.3	0.0	1.9	0.0	2.0	0.0	2.0
D03-B-p	100.0	7200.4	0.0	1.0	0.0	2.1	0.0	1.1
D20-A-p	100.0	7220.4	0.0	5.1	0.0	6.0	0.0	5.0
P400.3-p	100.0	7199.5	0.0	1.0	0.0	1.0	0.0	1.0
P400.4-p	100.0	7199.6	0.0	1.1	0.0	1.0	0.0	1.2
K400.7-p	100.0	7207.5	0.0	3.1	0.0	5.0	0.0	4.9
K400.10-p	100.0	6951.5	0.0	4.4	0.0	5.0	0.0	6.4
hc10p-p	100.0	7200.0	1.7	7200.2	1.7	7202.1	100.0	7201.6
hc11u-p	100.0	7202.0	1.1	5966.9	1.2	7200.9	100.0	7202.4
hc12p-p	100.0	7340.2	1.9	7201.0	1.7	7205.0	100.0	7205.3
hc12u-p	100.0	10009.9	1.3	7200.3	1.4	7201.2	100.0	7200.2
bip52nu-p	100.0	7201.0	0.0	613.5	0.0	2857.5	100.0	7200.3
bip62nu-p	100.0	7201.4	0.0	310.9	0.0	1198.4	100.0	7200.3
cc3-12nu-p	100.0	7201.5	6.3	7200.4	7.4	7201.6	100.0	7200.6
cc12-2nu-p	100.0	7199.9	5.2	1056.1	3.3	7201.3	100.0	7201.2
i640-001-p	0.0	54.3	0.0	0.3	0.0	1.0	0.0	0.3
i640-221-p	100.0	7213.1	0.0	5220.1	0.0	5829.2	100.0	7204.6
i640-321-p	100.0	7230.8	0.4	7202.3	0.4	7204.8	100.0	7204.8
i640-341-p	100.0	7207.1	0.6	7202.0	0.8	7202.9	100.0	7200.9
a2000RandGraph_2-p	100.0	8652.0	0.0	6.4	0.0	7.0	0.0	6.0
a4000RandGraph_3-p	100.0	7426.4	0.0	5.3	0.0	7.1	0.0	5.6
a8000RandGraph_1.1.2-p	100.0	7200.0	0.0	198.1	0.0	388.0	0.0	443.9
a14000RandGraph_1.1.5-p	100.0	11081.8	0.0	2815.7	0.0	3802.3	0.0	1204.1
handsd04-p	100.0	8022.1	1.0	7203.1	1.0	7204.3	1.4	7203.4
handbd13-p	100.0	7200.0	2.6	7214.6	2.6	7218.3	2.6	7216.2
handsi03-p	100.0	7505.5	0.0	47.4	0.0	59.4	0.0	48.8
handbi07-p	100.0	7200.0	0.0	1453.8	0.0	1358.8	0.0	1636.0
drosophila001-p	100.0	7456.9	0.0	13.4	0.0	15.1	0.0	13.6
HCMV-p	100.0	7200.0	0.0	1.9	0.0	3.0	0.0	2.1
lymphoma-p	100.0	7216.2	0.0	0.3	0.0	1.0	0.0	0.3
metabol_expr_mice_1-p	100.0	7218.0	0.0	2.0	0.0	3.0	0.0	2.0
Formula 1	3.4	0.0	184.4	188.7	178.4	95.5	98.4	115.0
Average	96.9	6412.1	0.7	107.9	0.7	145.0	34.5	143.9

MWCS

MWCS 1 Thread: PB (1)

Name	AB-ex		AB-heur		heinz-dc		heinz-mc		heinz-no-dc		heinz-no-pre	
	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time
drosophila001-p	14.6	7203.0	14.6	2.0	24.4	114.4	12.1	7199.9	24.4	114.6	24.4	222.7
drosophila005-p	147.8	7203.0	154.6	7201.0	178.7	145.4	103.9	7199.0	178.7	138.3	178.7	1007.1
drosophila0075-p	231.9	7203.0	242.4	7201.0	260.5	69.0	160.8	7199.3	260.5	67.9	260.5	212.2
HCMV-p	7.6	1966.0	5.5	1.0	7.6	8.3	7.6	7199.3	7.6	7.1	7.6	13.8
lymphoma-p	70.2	207.0	49.4	2.0	70.2	3.4	55.4	7199.6	70.2	3.2	70.2	2.9
metabol.expr_mice.1-p	542.7	6183.0	477.1	127.0	544.2	7200.0	481.3	7199.8	0.0	7199.8	544.2	7202.3
metabol.expr_mice.2-p	241.1	6200.0	233.8	1.0	241.1	2.8	241.1	7199.9	241.1	3.0	241.1	10.5
metabol.expr_mice.3-p	508.3	6104.0	443.2	3.0	508.3	28.5	467.4	7199.5	508.3	70.4	508.3	7199.2
1500-a-0.6-d-0.25-e-0.25-p	1333.5	7201.0	1333.5	1.0	1333.5	2.0	1290.0	7199.2	1333.5	2.9	1333.5	1515.6
1500-a-0.6-d-0.25-e-0.5-p	2799.7	11.0	2799.7	0.0	2799.7	0.5	2799.7	7199.3	2799.7	0.5	2799.7	56.6
750-a-0.647-d-0.25-e-0.25-p	702.6	4.0	702.6	0.0	702.6	0.2	702.6	7199.1	702.6	0.2	702.6	7.2
1500-a-1-d-0.25-e-0.25-p	9.9	0.0	9.9	0.0	1377.0	0.8	1377.0	7199.6	1377.0	0.7	1377.0	35.5
1000-a-0.6-d-0.5-e-0.25-p	522.5	3.0	522.5	0.0	522.5	0.2	522.5	7199.1	522.5	0.2	522.5	18.1
1000-a-0.6-d-0.25-e-0.5-p	1872.3	8.0	1871.8	0.0	1872.3	0.2	1872.3	7199.1	1872.3	0.2	1872.3	16.9
1000-a-0.6-d-0.25-e-0.25-p	931.5	89.0	931.5	0.0	931.5	0.5	926.3	7199.1	931.5	0.5	930.7	7203.4
750-a-0.647-d-0.25-e-0.5-p	1419.8	1.0	1419.8	0.0	1419.8	0.1	1419.8	7199.1	1419.8	0.1	1419.8	29.2
500-a-0.62-d-0.75-e-0.25-p	171.6	0.0	171.6	0.0	171.6	0.1	171.6	7199.0	171.6	0.0	171.6	5.4
500-a-0.62-d-0.25-e-0.25-p	460.6	12.0	460.6	0.0	460.6	0.3	459.8	7199.0	460.6	0.3	460.6	7200.3
1000-a-0.6-d-0.75-e-0.25-p	332.8	0.0	332.8	0.0	332.8	0.2	332.8	7199.1	332.8	0.1	332.8	26.3
500-a-0.62-d-0.25-e-0.5-p	993.0	0.0	993.0	0.0	993.0	0.1	993.0	7199.0	993.0	0.1	993.0	4.1
1000-a-1-d-0.25-e-0.75-p	10.0	0.0	10.0	0.0	2789.6	0.3	2789.6	7199.3	2789.6	0.3	2789.6	28.1
1000-a-0.6-d-0.25-e-0.75-p	10.0	0.0	10.0	0.0	2789.6	0.2	2789.6	7199.1	2789.6	0.1	2789.6	25.2
1500-a-0.6-d-0.75-e-0.75-p	10.0	0.0	10.0	0.0	1423.6	0.3	1423.6	7199.3	1423.6	0.3	1423.6	58.0
1000-a-1-d-0.5-e-0.75-p	10.0	0.0	10.0	0.0	1770.3	0.4	1770.3	7199.3	1770.3	0.3	1770.3	27.1
1000-a-0.6-d-0.5-e-0.75-p	1762.7	0.0	1762.7	0.0	1762.7	0.2	1762.7	7199.1	1762.7	0.1	1762.7	28.3
1500-a-1-d-0.75-e-0.75-p	10.0	0.0	10.0	0.0	1423.6	0.8	1423.6	7199.7	1423.6	0.7	1423.6	51.6
1500-a-1-d-0.75-e-0.5-p	10.0	0.0	10.0	0.0	1089.8	0.8	1089.8	7199.7	1089.8	0.7	1089.8	129.9
1000-a-1-d-0.25-e-0.5-p	9.9	0.0	9.9	0.0	1883.2	0.4	1883.2	7199.3	1883.2	0.3	1883.2	30.7
1500-a-0.6-d-0.5-e-0.25-p	847.5	3.0	847.5	0.0	847.5	0.5	847.5	7199.3	847.5	0.4	847.5	674.1
1500-a-0.6-d-0.75-e-0.5-p	10.0	0.0	10.0	0.0	1089.8	0.3	1089.8	7199.2	1089.8	0.3	1083.5	7203.1
750-a-1-d-0.25-e-0.75-p	10.0	0.0	10.0	0.0	2116.6	0.2	2116.6	7199.2	2116.6	0.2	2116.6	19.5
750-a-0.647-d-0.25-e-0.75-p	10.0	0.0	10.0	0.0	2116.6	0.2	2116.6	7199.1	2116.6	0.1	2116.6	12.6
Formula 1	80.7		62.4		114.5		88.2		114.5		108.8	
Average	71.4	10.1	70.0	1.1	605.6	1.8	572.4	7199.3	605.6	1.8	605.5	61.1

MWCS 1 Thread: PB (2)

Name	mozartballs		polito		schmidt		scipjack		scipjackspX	
	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time
drosophila001-p	24.4	21.6	14.1	307.5	11.9	0.4	24.4	4272.4	24.4	7201.1
drosophila005-p	178.7	15.5	176.0	276.2	100.9	0.5	131.4	7201.5	130.5	7201.7
drosophila0075-p	260.5	10.5	258.9	71.4	176.5	0.5	218.5	7202.4	214.6	7204.4
HCMV-p	7.6	2.2	0.4	14.4	3.4	0.1	7.6	129.5	7.6	94.7
lymphoma-p	70.2	0.4	70.2	3.0	35.3	0.0	70.2	12.1	70.2	16.2
metabol_expr_mice.1-p	544.9	2.7	6.0	1.3	473.6	0.0	544.9	22.6	544.9	33.4
metabol_expr_mice.2-p	241.1	1.9	217.2	57.7	228.9	0.0	241.1	4.4	241.1	5.5
metabol_expr_mice.3-p	508.3	1.1	442.8	38.0	381.3	0.0	508.3	9.4	508.3	12.1
1500-a-0.6-d-0.25-e-0.25-p	1333.5	2.0	1324.3	7200.0	997.7	0.0	1329.8	7203.9	1329.8	7198.6
1500-a-0.6-d-0.25-e-0.5-p	2799.7	0.6	2799.3	1030.8	2576.6	0.0	2797.7	7216.2	2797.7	7203.8
750-a-0.647-d-0.25-e-0.25-p	702.6	0.3	702.6	10.1	560.5	0.0	702.6	184.9	702.6	167.1
1500-a-1-d-0.25-e-0.25-p	1377.0	0.8	1377.0	29.8	1203.8	0.1	1377.0	28.3	1377.0	28.1
1000-a-0.6-d-0.5-e-0.25-p	522.5	0.6	522.2	11.9	419.4	0.0	522.5	7206.4	522.5	7185.1
1000-a-0.6-d-0.25-e-0.5-p	1872.3	0.2	1872.3	428.8	1734.0	0.0	1870.2	7206.0	1870.2	7201.3
1000-a-0.6-d-0.25-e-0.25-p	931.5	0.6	928.1	7200.0	702.3	0.0	931.5	1032.5	931.5	1427.0
750-a-0.647-d-0.25-e-0.5-p	1419.8	0.2	1419.8	5.1	1329.7	0.0	1419.8	3894.2	1419.8	6009.1
500-a-0.62-d-0.75-e-0.25-p	171.6	0.1	171.6	1.9	161.5	0.0	171.6	4.6	171.6	4.5
500-a-0.62-d-0.25-e-0.25-p	460.6	0.3	459.9	1656.0	357.4	0.0	460.6	56.3	460.6	90.2
1000-a-0.6-d-0.75-e-0.25-p	332.8	0.4	332.8	3.8	281.7	0.0	332.8	7205.9	332.8	7196.7
500-a-0.62-d-0.25-e-0.5-p	993.0	0.1	993.0	3.0	922.9	0.0	993.0	40.4	993.0	9.7
1000-a-1-d-0.25-e-0.75-p	2789.6	0.7	2789.6	8.3	2756.4	0.0	2789.6	66.4	2789.6	67.1
1000-a-0.6-d-0.25-e-0.75-p	2789.6	0.2	2789.6	4.0	2736.7	0.0	2789.6	69.6	2789.6	69.7
1500-a-0.6-d-0.75-e-0.75-p	1423.6	0.6	1423.6	8.5	1403.5	0.0	1423.6	174.4	1423.6	175.6
1000-a-1-d-0.5-e-0.75-p	1770.3	0.6	1770.3	7.3	1756.8	0.0	1770.3	52.5	1770.3	52.6
1000-a-0.6-d-0.5-e-0.75-p	1762.7	0.3	1762.7	3.9	1729.4	0.0	1762.7	7210.3	1762.7	7201.9
1500-a-1-d-0.75-e-0.75-p	1423.6	0.8	1423.6	13.0	1423.6	0.1	1423.6	169.1	1423.6	170.0
1500-a-1-d-0.75-e-0.5-p	1089.8	0.8	1089.8	14.7	1064.8	0.1	1089.8	142.3	1089.8	142.7
1000-a-1-d-0.25-e-0.5-p	1883.2	0.6	1883.2	6.6	1825.6	0.0	1883.2	30.0	1883.2	30.3
1500-a-0.6-d-0.5-e-0.25-p	847.5	0.5	847.5	25.1	645.7	0.0	847.5	7226.2	847.5	7200.1
1500-a-0.6-d-0.75-e-0.5-p	1089.8	0.6	1089.8	8.3	1013.5	0.0	1089.8	145.5	1089.8	146.2
750-a-1-d-0.25-e-0.75-p	2116.6	0.5	2116.6	3.5	2095.8	0.0	2116.6	29.2	2116.6	28.9
750-a-0.647-d-0.25-e-0.75-p	2116.6	0.2	2116.6	5.2	2060.7	0.0	2116.6	30.8	2116.6	30.9
Formula 1	123.8		80.6		2.9		92.8		92.8	
Average	605.6	0.9	546.5	19.4	510.4	0.0	597.7	147.9	597.3	151.9

MWCS 1 Thread: Primal Integral (1)

Name	AB-ex		AB-heur		heinz-dc		heinz-mc		heinz-no-dc		heinz-no-pre	
	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time
drosophila001-p	2882.1	7203.0	3221.8	2.0	7.8	114.4	7207.7	7199.9	114.4	114.6	13.3	222.7
drosophila005-p	1242.1	7203.0	1880.0	7201.0	5.8	145.4	7288.6	7199.0	124.8	138.3	39.3	1007.1
drosophila0075-p	792.2	7203.0	1358.5	7201.0	5.4	69.0	7350.5	7199.3	67.5	67.9	37.9	212.2
HCMV-p	0.0	1966.0	2275.6	1.0	1.4	8.3	7203.2	7199.3	7.0	7.1	7.0	13.8
lymphoma-p	0.0	207.0	2528.4	2.0	3.4	3.4	7244.3	7199.6	3.2	3.2	2.9	2.9
metabol_expr_mice_1-p	29.6	6183.0	1417.9	127.0	11.6	7200.0	7330.7	7199.8	7200.0	7199.8	12.1	7202.3
metabol_expr_mice_2-p	0.0	6200.0	539.1	1.0	0.9	2.8	7232.1	7199.9	3.0	3.0	1.6	10.5
metabol_expr_mice_3-p	0.0	6104.0	1289.1	3.0	0.5	28.5	7291.3	7199.5	32.2	70.4	1.5	7199.2
1500-a-0.6-d-0.25-e-0.25-p	0.0	7201.0	0.0	1.0	0.3	2.0	9537.3	7199.2	2.9	2.9	19.3	1515.6
1500-a-0.6-d-0.25-e-0.5-p	0.0	11.0	0.0	0.0	0.4	0.5	14113.5	7199.3	0.5	0.5	41.7	56.6
750-a-0.647-d-0.25-e-0.25-p	0.0	4.0	3.0	0.0	0.2	0.2	9542.9	7199.1	0.2	0.2	4.8	7.2
1500-a-1-d-0.25-e-0.25-p	7200.0	0.0	7200.0	0.0	0.8	0.8	9562.8	7199.6	0.7	0.7	30.6	35.5
1000-a-0.6-d-0.5-e-0.25-p	0.0	3.0	0.0	0.0	0.2	0.2	9083.0	7199.1	0.2	0.2	12.4	18.1
1000-a-0.6-d-0.25-e-0.5-p	0.0	8.0	1.8	0.0	0.1	0.2	14173.8	7199.1	0.2	0.2	14.5	16.9
1000-a-0.6-d-0.25-e-0.25-p	0.0	89.0	0.0	0.0	0.2	0.5	9580.8	7199.1	0.5	0.5	13.8	7203.4
750-a-0.647-d-0.25-e-0.5-p	0.0	1.0	0.0	0.0	0.1	0.1	14179.9	7199.1	0.1	0.1	8.8	29.2
500-a-0.62-d-0.75-e-0.25-p	0.0	0.0	0.0	0.0	0.1	0.1	9911.9	7199.0	0.1	0.0	4.8	5.4
500-a-0.62-d-0.25-e-0.25-p	0.0	12.0	0.0	0.0	0.2	0.3	9468.7	7199.0	0.2	0.3	2.4	7200.3
1000-a-0.6-d-0.75-e-0.25-p	0.0	0.0	0.0	0.0	0.1	0.2	9725.0	7199.1	0.1	0.1	20.1	26.3
500-a-0.62-d-0.25-e-0.5-p	0.0	0.0	0.0	0.0	0.1	0.1	13980.0	7199.0	0.1	0.1	4.0	4.1
1000-a-1-d-0.25-e-0.75-p	7200.0	0.0	7200.0	0.0	0.3	0.3	9705.5	7199.3	0.3	0.3	28.1	28.1
1000-a-0.6-d-0.25-e-0.75-p	7200.0	0.0	7200.0	0.0	0.1	0.2	9705.6	7199.1	0.1	0.1	25.1	25.2
1500-a-0.6-d-0.75-e-0.75-p	7200.0	0.0	7200.0	0.0	0.3	0.3	9281.6	7199.3	0.2	0.3	53.8	58.0
1000-a-1-d-0.5-e-0.75-p	7200.0	0.0	7200.0	0.0	0.3	0.4	9825.9	7199.3	0.3	0.3	27.1	27.1
1000-a-0.6-d-0.5-e-0.75-p	0.0	0.0	0.0	0.0	0.1	0.2	9806.4	7199.1	0.1	0.1	25.6	28.3
1500-a-1-d-0.75-e-0.75-p	7200.0	0.0	7200.0	0.0	0.8	0.8	9281.5	7199.7	0.7	0.7	51.5	51.6
1500-a-1-d-0.75-e-0.5-p	7200.0	0.0	7200.0	0.0	0.8	0.8	12602.3	7199.7	0.7	0.7	48.5	129.9
1000-a-1-d-0.25-e-0.5-p	7200.0	0.0	7200.0	0.0	0.3	0.4	14174.9	7199.3	0.3	0.3	30.7	30.7
1500-a-0.6-d-0.5-e-0.25-p	0.0	3.0	0.0	0.0	0.4	0.5	9284.4	7199.3	0.4	0.4	30.6	674.1
1500-a-0.6-d-0.75-e-0.5-p	7200.0	0.0	7200.0	0.0	0.3	0.3	12602.6	7199.2	0.2	0.3	87.4	7203.1
750-a-1-d-0.25-e-0.75-p	7200.0	0.0	7200.0	0.0	0.2	0.2	9660.0	7199.2	0.2	0.2	19.5	19.5
750-a-0.647-d-0.25-e-0.75-p	7200.0	0.0	7200.0	0.0	0.1	0.2	9660.0	7199.1	0.1	0.1	12.6	12.6
Formula 1	151.0		90.0		131.0		0.0		138.0		37.0	
Average	102.2	10.1	267.5	1.1	0.6	1.8	9801.2	7199.3	1.8	1.8	14.1	61.1

MWCS 1 Thread: Primal Integral (2)

Name	mozartballs		polito		schmidt		scipjack		scipjacksp	
	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time
drosophila001-p	3.9	21.6	3031.7	307.5	3676.1	0.4	5.5	4272.4	476.2	7201.1
drosophila005-p	1.7	15.5	120.6	276.2	3132.6	0.5	1922.5	7201.5	1955.2	7201.7
drosophila0075-p	1.2	10.5	56.6	71.4	2322.7	0.5	1204.3	7202.4	1296.3	7204.4
HCMV-p	0.7	2.2	6833.9	14.4	3973.9	0.1	1.0	129.5	1.0	94.7
lymphoma-p	0.1	0.4	0.9	3.0	3572.8	0.0	0.8	12.1	0.7	16.2
metabol_expr_mice.1-p	0.1	2.7	7121.1	1.3	943.4	0.0	0.8	22.6	2.4	33.4
metabol_expr_mice.2-p	0.2	1.9	712.5	57.7	363.5	0.0	0.3	4.4	0.3	5.5
metabol_expr_mice.3-p	0.1	1.1	928.7	38.0	1798.2	0.0	1.4	9.4	1.0	12.1
1500-a-0.6-d-0.25-e-0.25-p	0.1	2.0	78.8	7200.0	1812.9	0.0	42.1	7203.9	42.3	7198.6
1500-a-0.6-d-0.25-e-0.5-p	0.1	0.6	1.9	1030.8	573.7	0.0	105.6	7216.2	106.6	7203.8
750-a-0.647-d-0.25-e-0.25-p	0.1	0.3	0.3	10.1	1456.4	0.0	3.6	184.9	3.8	167.1
1500-a-1-d-0.25-e-0.25-p	0.2	0.8	1.4	29.8	905.6	0.1	28.3	28.3	28.1	28.1
1000-a-0.6-d-0.5-e-0.25-p	0.1	0.6	5.0	11.9	1420.3	0.0	16.0	7206.4	15.9	7185.1
1000-a-0.6-d-0.25-e-0.5-p	0.1	0.2	0.4	428.8	531.7	0.0	37.1	7206.0	37.2	7201.3
1000-a-0.6-d-0.25-e-0.25-p	0.1	0.6	37.1	7200.0	1772.0	0.0	7.4	1032.5	7.4	1427.0
750-a-0.647-d-0.25-e-0.5-p	0.1	0.2	0.3	5.1	456.6	0.0	13.1	3894.2	13.1	6009.1
500-a-0.62-d-0.75-e-0.25-p	0.0	0.1	0.2	1.9	423.7	0.0	4.5	4.6	4.5	4.5
500-a-0.62-d-0.25-e-0.25-p	0.0	0.3	14.0	1656.0	1613.4	0.0	1.1	56.3	1.1	90.2
1000-a-0.6-d-0.75-e-0.25-p	0.1	0.4	0.4	3.8	1104.7	0.0	31.4	7205.9	31.4	7196.7
500-a-0.62-d-0.25-e-0.5-p	0.0	0.1	0.2	3.0	507.8	0.0	4.5	40.4	4.2	9.7
1000-a-1-d-0.25-e-0.75-p	0.1	0.7	0.9	8.3	85.6	0.0	66.4	66.4	67.1	67.1
1000-a-0.6-d-0.25-e-0.75-p	0.1	0.2	0.4	4.0	136.5	0.0	69.5	69.6	69.7	69.7
1500-a-0.6-d-0.75-e-0.75-p	0.1	0.6	0.6	8.5	101.7	0.0	174.4	174.4	175.6	175.6
1000-a-1-d-0.5-e-0.75-p	0.1	0.6	0.9	7.3	54.7	0.0	52.5	52.5	52.6	52.6
1000-a-0.6-d-0.5-e-0.75-p	0.1	0.3	0.4	3.9	135.9	0.0	55.4	7210.3	55.6	7201.9
1500-a-1-d-0.75-e-0.75-p	0.2	0.8	1.3	13.0	0.1	0.1	169.1	169.1	169.9	170.0
1500-a-1-d-0.75-e-0.5-p	0.2	0.8	1.3	14.7	164.8	0.1	142.3	142.3	142.7	142.7
1000-a-1-d-0.25-e-0.5-p	0.1	0.6	0.9	6.6	220.4	0.0	30.0	30.0	30.3	30.3
1500-a-0.6-d-0.5-e-0.25-p	0.2	0.5	0.6	25.1	1714.2	0.0	51.5	7226.2	52.1	7200.1
1500-a-0.6-d-0.75-e-0.5-p	0.1	0.6	0.6	8.3	503.6	0.0	145.5	145.5	146.1	146.2
750-a-1-d-0.25-e-0.75-p	0.1	0.5	0.7	3.5	70.9	0.0	29.1	29.2	28.9	28.9
750-a-0.647-d-0.25-e-0.75-p	0.1	0.2	0.3	5.2	190.0	0.0	30.8	30.8	30.9	30.9
Formula 1	286.0		70.0		11.0		42.0		32.0	
Average	0.2	0.9	5.9	19.4	471.8	0.0	18.9	147.9	21.6	151.9

MWCS 1 Thread: Exact

Name	heinz-dc		heinz-no-dc		heinz-no-pre		mozartballs		scipjack		scipjackspx	
	gap	Time	gap	Time	gap	Time	gap	Time	gap	Time	gap	Time
drosophila001-p	0.0	114.4	0.0	114.6	0.0	222.7	0.0	21.6	0.0	4272.4	0.8	7201.1
drosophila005-p	0.0	145.4	0.0	138.3	0.0	1007.1	0.0	15.5	26.8	7201.5	27.3	7201.7
drosophila0075-p	0.0	69.0	0.0	67.9	0.0	212.2	0.0	10.5	16.3	7202.4	17.9	7204.4
HCMV-p	0.0	8.3	0.0	7.1	0.0	13.8	0.0	2.2	0.0	129.5	0.0	94.7
lymphoma-p	0.0	3.4	0.0	3.2	0.0	2.9	0.0	0.4	0.0	12.1	0.0	16.2
metabol_expr_mice.1-p	1.2	7200.0	100.0	7199.8	4.4	7202.3	0.0	2.7	0.0	22.6	0.0	33.4
metabol_expr_mice.2-p	0.0	2.8	0.0	3.0	0.0	10.5	0.0	1.9	0.0	4.4	0.0	5.5
metabol_expr_mice.3-p	0.0	28.5	0.0	70.4	0.5	7199.2	0.0	1.1	0.0	9.4	0.0	12.1
1500-a-0.6-d-0.25-e-0.25-p	0.0	2.0	0.0	2.9	0.0	1515.6	0.0	2.0	0.7	7203.9	0.7	7198.6
1500-a-0.6-d-0.25-e-0.5-p	0.0	0.5	0.0	0.5	0.0	56.6	0.0	0.6	0.4	7216.2	0.4	7203.8
750-a-0.647-d-0.25-e-0.25-p	0.0	0.2	0.0	0.2	0.0	7.2	0.0	0.3	0.0	184.9	0.0	167.1
1500-a-1-d-0.25-e-0.25-p	0.0	0.8	0.0	0.7	0.0	35.5	0.0	0.8	0.0	28.3	0.0	28.1
1000-a-0.6-d-0.5-e-0.25-p	0.0	0.2	0.0	0.2	0.0	18.1	0.0	0.6	1.8	7206.4	1.8	7185.1
1000-a-0.6-d-0.25-e-0.5-p	0.0	0.2	0.0	0.2	0.0	16.9	0.0	0.2	0.5	7206.0	0.5	7201.3
1000-a-0.6-d-0.25-e-0.25-p	0.0	0.5	0.0	0.5	0.2	7203.4	0.0	0.6	0.0	1032.5	0.0	1427.0
750-a-0.647-d-0.25-e-0.5-p	0.0	0.1	0.0	0.1	0.0	29.2	0.0	0.2	0.0	3894.2	0.0	6009.1
500-a-0.62-d-0.75-e-0.25-p	0.0	0.1	0.0	0.0	0.0	5.4	0.0	0.1	0.0	4.6	0.0	4.5
500-a-0.62-d-0.25-e-0.25-p	0.0	0.3	0.0	0.3	0.2	7200.3	0.0	0.3	0.0	56.3	0.0	90.2
1000-a-0.6-d-0.75-e-0.25-p	0.0	0.2	0.0	0.1	0.0	26.3	0.0	0.4	1.2	7205.9	1.2	7196.7
500-a-0.62-d-0.25-e-0.5-p	0.0	0.1	0.0	0.1	0.0	4.1	0.0	0.1	0.0	40.4	0.0	9.7
1000-a-1-d-0.25-e-0.75-p	0.0	0.3	0.0	0.3	0.0	28.1	0.0	0.7	0.0	66.4	0.0	67.1
1000-a-0.6-d-0.25-e-0.75-p	0.0	0.2	0.0	0.1	0.0	25.2	0.0	0.2	0.0	69.6	0.0	69.7
1500-a-0.6-d-0.75-e-0.75-p	0.0	0.3	0.0	0.3	0.0	58.0	0.0	0.6	0.0	174.4	0.0	175.6
1000-a-1-d-0.5-e-0.75-p	0.0	0.4	0.0	0.3	0.0	27.1	0.0	0.6	0.0	52.5	0.0	52.6
1000-a-0.6-d-0.5-e-0.75-p	0.0	0.2	0.0	0.1	0.0	28.3	0.0	0.3	0.4	7210.3	0.4	7201.9
1500-a-1-d-0.75-e-0.75-p	0.0	0.8	0.0	0.7	0.0	51.6	0.0	0.8	0.0	169.1	0.0	170.0
1500-a-1-d-0.75-e-0.5-p	0.0	0.8	0.0	0.7	0.0	129.9	0.0	0.8	0.0	142.3	0.0	142.7
1000-a-1-d-0.25-e-0.5-p	0.0	0.4	0.0	0.3	0.0	30.7	0.0	0.6	0.0	30.0	0.0	30.3
1500-a-0.6-d-0.5-e-0.25-p	0.0	0.5	0.0	0.4	0.0	674.1	0.0	0.5	1.1	7226.2	1.1	7200.1
1500-a-0.6-d-0.75-e-0.5-p	0.0	0.3	0.0	0.3	0.6	7203.1	0.0	0.6	0.0	145.5	0.0	146.2
750-a-1-d-0.25-e-0.75-p	0.0	0.2	0.0	0.2	0.0	19.5	0.0	0.5	0.0	29.2	0.0	28.9
750-a-0.647-d-0.25-e-0.75-p	0.0	0.2	0.0	0.1	0.0	12.6	0.0	0.2	0.0	30.8	0.0	30.9
Formula 1	172.6	222.0	173.3	282.0	162.7	85.0	188.7	219.0	147.2	70.0	142.5	55.0
Average	0.0	1.8	2.6	1.8	0.2	61.1	0.0	0.9	1.3	147.9	1.4	151.9

MWCS 8 Threads: PB (1)

Name	AB-ex		AB-heur		fscip-jack		fscip-jack-spx		heinz-dc	
	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time
drosophila001-p	14.6	7203.0	14.6	2.0	14.9	47361.6	14.9	21356.2	24.4	85.6
drosophila005-p	147.8	7204.0	154.6	6670.0	132.1	16266.5	131.8	20291.4	178.7	119.2
drosophila0075-p	231.9	7204.0	242.4	7202.0	218.5	7201.1	214.4	10036.2	260.5	67.9
HCMV-p	7.6	2537.0	5.5	1.0	7.6	127.4	7.6	96.1	7.6	7.4
lymphoma-p	70.2	200.0	49.4	2.0	70.2	12.0	70.2	16.3	70.2	3.0
metabol_expr_mice.1-p	544.9	6184.0	477.1	127.0	544.9	23.0	544.9	33.3	544.2	7207.7
metabol_expr_mice.2-p	241.1	6200.0	233.8	1.0	241.1	4.5	241.1	5.6	241.1	2.7
metabol_expr_mice.3-p	508.3	6105.0	443.2	4.0	508.3	9.9	508.3	11.8	508.3	19.8
1500-a-0.6-d-0.25-e-0.25-p	1333.5	7201.0	1333.5	1.0	1329.8	7204.4	1329.8	7199.7	1333.5	1.9
1500-a-0.6-d-0.25-e-0.5-p	2799.7	194.0	2799.7	0.0	2797.7	7229.0	2797.7	7207.4	2799.7	0.4
750-a-0.647-d-0.25-e-0.25-p	702.6	5.0	702.6	0.0	702.6	184.2	702.6	165.2	702.6	0.2
1500-a-1-d-0.25-e-0.25-p	9.9	0.0	9.9	0.0	1377.0	28.1	1377.0	28.8	1377.0	0.7
1000-a-0.6-d-0.5-e-0.25-p	522.5	3.0	522.5	0.0	522.5	7203.2	522.5	7188.8	522.5	0.2
1000-a-0.6-d-0.25-e-0.5-p	1872.3	3.0	1871.8	0.0	1870.2	7205.4	1870.2	7203.1	1872.3	0.2
1000-a-0.6-d-0.25-e-0.25-p	931.5	80.0	931.5	0.0	931.5	1013.1	931.5	11132.5	931.5	0.5
750-a-0.647-d-0.25-e-0.5-p	1419.8	1.0	1419.8	0.0	1419.8	5206.5	1419.8	2043.1	1419.8	0.1
500-a-0.62-d-0.75-e-0.25-p	171.6	0.0	171.6	0.0	171.6	4.6	171.6	4.5	171.6	0.1
500-a-0.62-d-0.25-e-0.25-p	460.6	5.0	460.6	0.0	460.6	1008.8	460.6	637.7	460.6	0.3
1000-a-0.6-d-0.75-e-0.25-p	332.8	0.0	332.8	0.0	332.8	7210.1	332.8	7198.9	332.8	0.2
500-a-0.62-d-0.25-e-0.5-p	993.0	0.0	993.0	0.0	993.0	44.0	993.0	9.7	993.0	0.1
1000-a-1-d-0.25-e-0.75-p	10.0	0.0	10.0	0.0	2789.6	67.2	2789.6	67.8	2789.6	0.3
1000-a-0.6-d-0.25-e-0.75-p	10.0	0.0	10.0	0.0	2789.6	70.3	2789.6	69.8	2789.6	0.2
1500-a-0.6-d-0.75-e-0.75-p	10.0	0.0	10.0	0.0	1423.6	174.7	1423.6	176.7	1423.6	0.3
1000-a-1-d-0.5-e-0.75-p	10.0	0.0	10.0	0.0	1770.3	52.5	1770.3	52.5	1770.3	0.4
1000-a-0.6-d-0.5-e-0.75-p	1762.7	0.0	1762.7	0.0	1762.7	7210.0	1762.7	7199.1	1762.7	0.1
1500-a-1-d-0.75-e-0.75-p	10.0	0.0	10.0	0.0	1423.6	170.0	1423.6	169.6	1423.6	0.8
1500-a-1-d-0.75-e-0.5-p	10.0	0.0	10.0	0.0	1089.8	142.6	1089.8	142.6	1089.8	0.7
1000-a-1-d-0.25-e-0.5-p	9.9	0.0	9.9	0.0	1883.2	30.2	1883.2	30.0	1883.2	0.4
1500-a-0.6-d-0.5-e-0.25-p	847.5	3.0	847.5	0.0	847.5	7225.8	847.5	7201.6	847.5	0.5
1500-a-0.6-d-0.75-e-0.5-p	10.0	0.0	10.0	0.0	1089.8	145.7	1089.8	144.9	1089.8	0.3
750-a-1-d-0.25-e-0.75-p	10.0	0.0	10.0	0.0	2116.6	28.9	2116.6	28.7	2116.6	0.2
750-a-0.647-d-0.25-e-0.75-p	10.0	0.0	10.0	0.0	2116.6	30.6	2116.6	30.2	2116.6	0.2
Formula 1	80.7		62.4		91.0		91.0		115.5	
Average	71.4	10.5	70.0	1.1	589.9	175.7	589.6	175.0	605.6	1.7

MWCS 8 Threads: PB (2)

Name	heinz-mc		heinz-no-dc		heinz-no-pre		mozartballs		polito	
	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time
drosophila001-p	12.1	7199.2	24.4	76.1	24.4	168.9	24.4	22.3	12.1	174.0
drosophila005-p	103.9	7199.1	178.7	119.5	178.7	533.2	178.7	15.8	173.8	94.4
drosophila0075-p	160.8	7199.7	260.5	82.4	260.5	183.8	260.5	10.5	257.8	97.0
HCMV-p	7.6	7199.3	7.6	6.2	7.6	14.0	7.6	2.2	1.4	26.7
lymphoma-p	55.4	7199.7	70.2	3.0	70.2	3.3	70.2	0.4	70.2	13.7
metabol_expr_mice.1-p	481.3	7199.9	0.0	7200.1	544.9	7212.2	544.9	4.3	6.0	6.5
metabol_expr_mice.2-p	241.1	7199.8	241.1	2.9	241.1	11.7	241.1	2.6	217.2	141.4
metabol_expr_mice.3-p	467.4	7199.5	508.3	46.7	508.3	7202.0	508.3	1.0	15.0	10.9
1500-a-0.6-d-0.25-e-0.25-p	1290.0	7199.2	1333.5	2.0	1333.5	397.9	1333.5	2.1	1298.8	7200.0
1500-a-0.6-d-0.25-e-0.5-p	2799.7	7199.3	2799.7	0.4	2799.7	54.5	2799.7	0.6	2798.7	810.3
750-a-0.647-d-0.25-e-0.25-p	702.6	7199.1	702.6	0.2	702.6	7.3	702.6	0.3	702.6	88.9
1500-a-1-d-0.25-e-0.25-p	1377.0	7199.6	1377.0	0.7	1377.0	36.3	1377.0	0.8	1377.0	47.3
1000-a-0.6-d-0.5-e-0.25-p	522.5	7199.1	522.5	0.2	522.5	19.2	522.5	0.7	522.2	38.1
1000-a-0.6-d-0.25-e-0.5-p	1872.3	7199.1	1872.3	0.2	1872.3	17.1	1872.3	0.2	1872.3	1493.8
1000-a-0.6-d-0.25-e-0.25-p	926.3	7199.1	931.5	0.5	930.7	7200.2	931.5	0.6	923.9	7200.1
750-a-0.647-d-0.25-e-0.5-p	1419.8	7199.1	1419.8	0.1	1419.8	29.0	1419.8	0.2	1419.8	74.9
500-a-0.62-d-0.75-e-0.25-p	171.6	7199.0	171.6	0.0	171.6	5.5	171.6	0.1	171.6	11.9
500-a-0.62-d-0.25-e-0.25-p	459.8	7199.0	460.6	0.3	460.6	7200.4	460.6	0.3	459.4	7200.0
1000-a-0.6-d-0.75-e-0.25-p	332.8	7199.1	332.8	0.1	332.8	22.4	332.8	0.5	332.8	20.7
500-a-0.62-d-0.25-e-0.5-p	993.0	7199.0	993.0	0.1	993.0	4.4	993.0	0.1	993.0	22.0
1000-a-1-d-0.25-e-0.75-p	2789.6	7199.3	2789.6	0.3	2789.6	28.4	2789.6	0.9	2789.6	16.1
1000-a-0.6-d-0.25-e-0.75-p	2789.6	7199.1	2789.6	0.1	2789.6	25.5	2789.6	0.2	2789.6	18.7
1500-a-0.6-d-0.75-e-0.75-p	1423.6	7199.3	1423.6	0.3	1423.6	55.1	1423.6	0.6	1423.6	20.6
1000-a-1-d-0.5-e-0.75-p	1770.3	7199.3	1770.3	0.3	1770.3	26.4	1770.3	0.6	1770.3	15.6
1000-a-0.6-d-0.5-e-0.75-p	1762.7	7199.1	1762.7	0.1	1762.7	28.7	1762.7	0.3	1762.7	19.6
1500-a-1-d-0.75-e-0.75-p	1423.6	7199.7	1423.6	0.7	1423.6	51.3	1423.6	0.9	1423.6	21.0
1500-a-1-d-0.75-e-0.5-p	1089.8	7199.7	1089.8	0.7	1089.8	128.8	1089.8	0.7	1089.8	25.9
1000-a-1-d-0.25-e-0.5-p	1883.2	7199.3	1883.2	0.3	1883.2	29.7	1883.2	0.6	1883.2	17.3
1500-a-0.6-d-0.5-e-0.25-p	847.5	7199.3	847.5	0.4	847.5	673.0	847.5	0.5	847.5	905.5
1500-a-0.6-d-0.75-e-0.5-p	1089.8	7199.2	1089.8	0.2	1089.8	57.7	1089.8	0.6	1089.8	19.7
750-a-1-d-0.25-e-0.75-p	2116.6	7199.2	2116.6	0.2	2116.6	19.2	2116.6	0.5	2116.6	18.1
750-a-0.647-d-0.25-e-0.75-p	2116.6	7199.1	2116.6	0.1	2116.6	12.7	2116.6	0.2	2116.6	27.9
Formula 1	88.1		115.5		113.5		123.7		80.5	
Average	572.4	7199.3	605.6	1.7	605.6	50.5	605.6	0.9	513.9	53.2

MWCS 8 Threads: Primal Integral (1)

Name	AB-ex		AB-heur		fscip-jack		fscip-jack-spx		heinz-dc	
	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time
drosophila001-p	2882.1	7203.0	3221.8	2.0	2790.1	47361.6	2790.2	21356.2	7.8	85.6
drosophila005-p	1242.1	7204.0	1880.0	6670.0	1896.5	16266.5	1932.3	20291.4	6.0	119.2
drosophila0075-p	792.2	7204.0	1358.5	7202.0	1205.7	7201.1	1296.3	10036.2	5.3	67.9
HCMV-p	0.0	2537.0	2275.6	1.0	1.1	127.4	1.1	96.1	2.0	7.4
lymphoma-p	0.0	200.0	2528.4	2.0	0.8	12.0	0.8	16.3	3.0	3.0
metabol_expr_mice.1-p	0.0	6184.0	1417.9	127.0	0.9	23.0	2.3	33.3	11.3	7200.7
metabol_expr_mice.2-p	0.0	6200.0	539.1	1.0	0.3	4.5	0.3	5.6	1.1	2.7
metabol_expr_mice.3-p	0.0	6105.0	1289.1	4.0	1.5	9.9	0.9	11.8	0.5	19.8
1500-a-0.6-d-0.25-e-0.25-p	0.0	7201.0	0.0	1.0	42.7	7204.4	42.3	7199.7	0.3	1.9
1500-a-0.6-d-0.25-e-0.5-p	0.0	194.0	0.0	0.0	106.8	7229.0	106.3	7207.4	0.3	0.4
750-a-0.647-d-0.25-e-0.25-p	0.0	5.0	3.0	0.0	3.7	184.2	3.6	165.2	0.2	0.2
1500-a-1-d-0.25-e-0.25-p	7200.0	0.0	7200.0	0.0	28.1	28.1	28.7	28.8	0.7	0.7
1000-a-0.6-d-0.5-e-0.25-p	0.0	3.0	0.0	0.0	16.0	7203.2	16.2	7188.8	0.2	0.2
1000-a-0.6-d-0.25-e-0.5-p	0.0	3.0	1.8	0.0	37.1	7205.4	37.2	7203.1	0.1	0.2
1000-a-0.6-d-0.25-e-0.25-p	0.0	80.0	0.0	0.0	7.5	1013.1	7.4	11132.5	0.2	0.5
750-a-0.647-d-0.25-e-0.5-p	0.0	1.0	0.0	0.0	13.1	5206.5	13.9	2043.1	0.1	0.1
500-a-0.62-d-0.75-e-0.25-p	0.0	0.0	0.0	0.0	4.6	4.6	4.5	4.5	0.1	0.1
500-a-0.62-d-0.25-e-0.25-p	0.0	5.0	0.0	0.0	1.1	1008.8	1.7	637.7	0.3	0.3
1000-a-0.6-d-0.75-e-0.25-p	0.0	0.0	0.0	0.0	31.2	7210.1	31.2	7198.9	0.1	0.2
500-a-0.62-d-0.25-e-0.5-p	0.0	0.0	0.0	0.0	4.7	44.0	4.2	9.7	0.1	0.1
1000-a-1-d-0.25-e-0.75-p	7200.0	0.0	7200.0	0.0	67.2	67.2	67.8	67.8	0.3	0.3
1000-a-0.6-d-0.25-e-0.75-p	7200.0	0.0	7200.0	0.0	70.3	70.3	69.7	69.8	0.1	0.2
1500-a-0.6-d-0.75-e-0.75-p	7200.0	0.0	7200.0	0.0	174.7	174.7	176.7	176.7	0.3	0.3
1000-a-1-d-0.5-e-0.75-p	7200.0	0.0	7200.0	0.0	52.5	52.5	52.5	52.5	0.3	0.4
1000-a-0.6-d-0.5-e-0.75-p	0.0	0.0	0.0	0.0	55.2	7210.0	55.4	7199.1	0.1	0.1
1500-a-1-d-0.75-e-0.75-p	7200.0	0.0	7200.0	0.0	169.9	170.0	169.6	169.6	0.8	0.8
1500-a-1-d-0.75-e-0.5-p	7200.0	0.0	7200.0	0.0	142.5	142.6	142.6	142.6	0.7	0.7
1000-a-1-d-0.25-e-0.5-p	7200.0	0.0	7200.0	0.0	30.1	30.2	30.0	30.0	0.3	0.4
1500-a-0.6-d-0.5-e-0.25-p	0.0	3.0	0.0	0.0	51.6	7225.8	52.0	7201.6	0.4	0.5
1500-a-0.6-d-0.75-e-0.5-p	7200.0	0.0	7200.0	0.0	145.7	145.7	144.9	144.9	0.3	0.3
750-a-1-d-0.25-e-0.75-p	7200.0	0.0	7200.0	0.0	28.9	28.9	28.7	28.7	0.2	0.2
750-a-0.647-d-0.25-e-0.75-p	7200.0	0.0	7200.0	0.0	30.6	30.6	30.2	30.2	0.1	0.2
Formula 1	160.0		90.0		33.0		36.0		133.0	
Average	93.3	10.5	267.5	1.1	22.4	175.7	22.8	175.0	0.6	1.7

MWCS 8 Threads: Primal Integral (2)

Name	heinz-mc		heinz-no-dc		heinz-no-pre		mozartballs		politto	
	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time
drosophila001-p	7207.7	7199.2	75.1	76.1	16.8	168.9	4.2	22.3	3628.9	174.0
drosophila005-p	7288.6	7199.1	116.3	119.5	30.9	533.2	1.7	15.8	210.5	94.4
drosophila0075-p	7350.5	7199.7	80.8	82.4	41.4	183.8	1.3	10.5	89.7	97.0
HCMV-p	7203.2	7199.3	5.8	6.2	7.2	14.0	0.8	2.2	5850.4	26.7
lymphoma-p	7244.3	7199.7	3.0	3.0	3.3	3.3	0.1	0.4	2.5	13.7
metabol_expr_mice.1-p	7330.7	7199.9	7200.0	7200.1	3.7	7212.2	0.1	4.3	7121.1	6.5
metabol_expr_mice.2-p	7232.1	7199.8	2.7	2.9	2.8	11.7	0.3	2.6	714.2	141.4
metabol_expr_mice.3-p	7291.3	7199.5	16.5	46.7	1.8	7202.0	0.1	1.0	6987.8	10.9
1500-a-0.6-d-0.25-e-0.25-p	9537.3	7199.2	2.0	2.0	18.3	397.9	0.1	2.1	197.9	7200.0
1500-a-0.6-d-0.25-e-0.5-p	14113.5	7199.3	0.4	0.4	40.0	54.5	0.1	0.6	4.9	810.3
750-a-0.647-d-0.25-e-0.25-p	9542.9	7199.1	0.2	0.2	4.9	7.3	0.1	0.3	1.8	88.9
1500-a-1-d-0.25-e-0.25-p	9562.8	7199.6	0.7	0.7	31.7	36.3	0.2	0.8	3.4	47.3
1000-a-0.6-d-0.5-e-0.25-p	9083.0	7199.1	0.2	0.2	12.2	19.2	0.1	0.7	6.2	38.1
1000-a-0.6-d-0.25-e-0.5-p	14173.8	7199.1	0.2	0.2	14.8	17.1	0.1	0.2	1.6	1493.8
1000-a-0.6-d-0.25-e-0.25-p	9580.8	7199.1	0.5	0.5	13.7	7200.2	0.1	0.6	70.4	7200.1
750-a-0.647-d-0.25-e-0.5-p	14179.9	7199.1	0.1	0.1	8.5	29.0	0.1	0.2	2.0	74.9
500-a-0.62-d-0.75-e-0.25-p	9911.9	7199.0	0.0	0.0	5.1	5.5	0.0	0.1	1.1	11.9
500-a-0.62-d-0.25-e-0.25-p	9468.7	7199.0	0.2	0.3	2.5	7200.4	0.0	0.3	41.0	7200.0
1000-a-0.6-d-0.75-e-0.25-p	9725.0	7199.1	0.1	0.1	20.1	22.4	0.1	0.5	1.6	20.7
500-a-0.62-d-0.25-e-0.5-p	13980.0	7199.0	0.1	0.1	4.3	4.4	0.0	0.1	1.1	22.0
1000-a-1-d-0.25-e-0.75-p	9705.5	7199.3	0.3	0.3	28.4	28.4	0.1	0.9	2.5	16.1
1000-a-0.6-d-0.25-e-0.75-p	9705.6	7199.1	0.1	0.1	25.5	25.5	0.1	0.2	1.6	18.7
1500-a-0.6-d-0.75-e-0.75-p	9281.6	7199.3	0.3	0.3	51.0	55.1	0.1	0.6	1.9	20.6
1000-a-1-d-0.5-e-0.75-p	9825.9	7199.3	0.3	0.3	26.4	26.4	0.1	0.6	2.4	15.6
1000-a-0.6-d-0.5-e-0.75-p	9806.4	7199.1	0.1	0.1	25.7	28.7	0.1	0.3	1.6	19.6
1500-a-1-d-0.75-e-0.75-p	9281.5	7199.7	0.7	0.7	51.2	51.3	0.2	0.9	3.1	21.0
1500-a-1-d-0.75-e-0.5-p	12602.3	7199.7	0.7	0.7	46.4	128.8	0.2	0.7	3.3	25.9
1000-a-1-d-0.25-e-0.5-p	14174.9	7199.3	0.3	0.3	29.7	29.7	0.1	0.6	2.5	17.3
1500-a-0.6-d-0.5-e-0.25-p	9284.4	7199.3	0.4	0.4	30.7	673.0	0.2	0.5	1.9	905.5
1500-a-0.6-d-0.75-e-0.5-p	12602.6	7199.2	0.2	0.2	44.5	57.7	0.1	0.6	1.9	19.7
750-a-1-d-0.25-e-0.75-p	9660.0	7199.2	0.2	0.2	19.2	19.2	0.1	0.5	2.0	18.1
750-a-0.647-d-0.25-e-0.75-p	9660.0	7199.1	0.1	0.1	12.7	12.7	0.1	0.2	1.5	27.9
Formula 1	0.0		145.0		38.0		286.0		67.0	
Average	9801.2	7199.3	1.7	1.7	13.7	50.5	0.2	0.9	11.4	53.2

MWCS 8 Threads: Exact

Name	fscip-jack		fscip-jack-spx		heinz-dc		heinz-no-dc		heinz-no-pre		mozartballs	
	gap	Time	gap	Time	gap	Time	gap	Time	gap	Time	gap	Time
drosophila001-p	100.0	47361.6	100.0	21356.2	0.0	85.6	0.0	76.1	0.0	168.9	0.0	22.3
drosophila005-p	100.0	16266.5	100.0	20291.4	0.0	119.2	0.0	119.5	0.0	533.2	0.0	15.8
drosophila0075-p	16.3	7201.1	19.5	10036.2	0.0	67.9	0.0	82.4	0.0	183.8	0.0	10.5
HCMV-p	0.0	127.4	0.0	96.1	0.0	7.4	0.0	6.2	0.0	14.0	0.0	2.2
lymphoma-p	0.0	12.0	0.0	16.3	0.0	3.0	0.0	3.0	0.0	3.3	0.0	0.4
metabol_expr_mice.1-p	0.0	23.0	0.0	33.3	1.0	7200.7	100.0	7200.1	4.6	7212.2	0.0	4.3
metabol_expr_mice.2-p	0.0	4.5	0.0	5.6	0.0	2.7	0.0	2.9	0.0	11.7	0.0	2.6
metabol_expr_mice.3-p	0.0	9.9	0.0	11.8	0.0	19.8	0.0	46.7	0.8	7202.0	0.0	1.0
1500-a-0.6-d-0.25-e-0.25-p	0.7	7204.4	0.7	7199.7	0.0	1.9	0.0	2.0	0.0	397.9	0.0	2.1
1500-a-0.6-d-0.25-e-0.5-p	0.4	7229.0	0.4	7207.4	0.0	0.4	0.0	0.4	0.0	54.5	0.0	0.6
750-a-0.647-d-0.25-e-0.25-p	0.0	184.2	0.0	165.2	0.0	0.2	0.0	0.2	0.0	7.3	0.0	0.3
1500-a-1-d-0.25-e-0.25-p	0.0	28.1	0.0	28.8	0.0	0.7	0.0	0.7	0.0	36.3	0.0	0.8
1000-a-0.6-d-0.5-e-0.25-p	1.8	7203.2	1.8	7188.8	0.0	0.2	0.0	0.2	0.0	19.2	0.0	0.7
1000-a-0.6-d-0.25-e-0.5-p	0.5	7205.4	0.5	7203.1	0.0	0.2	0.0	0.2	0.0	17.1	0.0	0.2
1000-a-0.6-d-0.25-e-0.25-p	0.0	1013.1	0.0	11132.5	0.0	0.5	0.0	0.5	0.2	7200.2	0.0	0.6
750-a-0.647-d-0.25-e-0.5-p	0.0	5206.5	0.0	2043.1	0.0	0.1	0.0	0.1	0.0	29.0	0.0	0.2
500-a-0.62-d-0.75-e-0.25-p	0.0	4.6	0.0	4.5	0.0	0.1	0.0	0.0	0.0	5.5	0.0	0.1
500-a-0.62-d-0.25-e-0.25-p	0.0	1008.8	0.0	637.7	0.0	0.3	0.0	0.3	0.2	7200.4	0.0	0.3
1000-a-0.6-d-0.75-e-0.25-p	1.2	7210.1	1.2	7198.9	0.0	0.2	0.0	0.1	0.0	22.4	0.0	0.5
500-a-0.62-d-0.25-e-0.5-p	0.0	44.0	0.0	9.7	0.0	0.1	0.0	0.1	0.0	4.4	0.0	0.1
1000-a-1-d-0.25-e-0.75-p	0.0	67.2	0.0	67.8	0.0	0.3	0.0	0.3	0.0	28.4	0.0	0.9
1000-a-0.6-d-0.25-e-0.75-p	0.0	70.3	0.0	69.8	0.0	0.2	0.0	0.1	0.0	25.5	0.0	0.2
1500-a-0.6-d-0.75-e-0.75-p	0.0	174.7	0.0	176.7	0.0	0.3	0.0	0.3	0.0	55.1	0.0	0.6
1000-a-1-d-0.5-e-0.75-p	0.0	52.5	0.0	52.5	0.0	0.4	0.0	0.3	0.0	26.4	0.0	0.6
1000-a-0.6-d-0.5-e-0.75-p	0.4	7210.0	0.4	7199.1	0.0	0.1	0.0	0.1	0.0	28.7	0.0	0.3
1500-a-1-d-0.75-e-0.75-p	0.0	170.0	0.0	169.6	0.0	0.8	0.0	0.7	0.0	51.3	0.0	0.9
1500-a-1-d-0.75-e-0.5-p	0.0	142.6	0.0	142.6	0.0	0.7	0.0	0.7	0.0	128.8	0.0	0.7
1000-a-1-d-0.25-e-0.5-p	0.0	30.2	0.0	30.0	0.0	0.4	0.0	0.3	0.0	29.7	0.0	0.6
1500-a-0.6-d-0.5-e-0.25-p	1.1	7225.8	1.1	7201.6	0.0	0.5	0.0	0.4	0.0	673.0	0.0	0.5
1500-a-0.6-d-0.75-e-0.5-p	0.0	145.7	0.0	144.9	0.0	0.3	0.0	0.2	0.0	57.7	0.0	0.6
750-a-1-d-0.25-e-0.75-p	0.0	28.9	0.0	28.7	0.0	0.2	0.0	0.2	0.0	19.2	0.0	0.5
750-a-0.647-d-0.25-e-0.75-p	0.0	30.6	0.0	30.2	0.0	0.2	0.0	0.1	0.0	12.7	0.0	0.2
Formula 1	138.8	57.0	141.8	61.0	174.8	233.7	171.8	275.7	168.8	89.0	187.1	220.7
Average	5.9	175.7	5.9	175.0	0.0	1.7	2.6	1.7	0.2	50.5	0.0	0.9

SPG

Name	AB		mozartballs		polito		PUW		scipjack		staynerd	
	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time
d18-p	223.0	1046.0	223.0	4.7	224.0	23.3	224.0	960.6	223.0	10.7	223.0	4.7
e18-p	24977.0	7201.0	564.0	177.9	565.0	4413.2	567.0	3689.3	564.0	454.2	564.0	174.1
i640-211-p	12104.0	7200.0	12027.0	7200.7	11984.0	4394.7	12023.0	2343.0	11984.0	7199.6	11991.0	7200.7
i640-314-p	35694.0	7200.0	35647.0	7200.5	35532.0	2133.0	35590.0	3207.0	35599.0	7200.3	35532.0	7200.0
i640-341-p	32417.0	7201.0	32098.0	7201.5	32047.0	6796.0	32065.0	7200.3	32124.0	7200.8	32101.0	7200.2
fnl4461fst-p	459882.0	7201.0	182666.0	7235.0	192847.0	7200.0	182527.0	7200.6	187512.0	7197.2	182707.0	7200.4
world666-p	12453462.0	7205.0	122467.0	3778.4	130516.0	7200.0	122467.0	790.3	122467.0	13.3	122467.0	7201.5
alue7080-p	383286.0	7202.0	62669.0	7229.2	67847.0	7200.8	62514.0	7201.0	-	7197.3	62588.0	7200.7
alut2625-p	451526.0	7251.0	35683.0	7220.6	41501.0	7200.1	35471.0	7200.2	36654.0	7329.5	35618.0	7279.3
es10000fst01-p	1442738340.0	7312.0	716559567.0	7322.3	764631246.0	7200.5	716903276.0	7201.0	-	7310.6	716908580.0	7202.1
lin36-p	645000.0	7202.0	56197.0	7208.3	64052.0	7200.9	55608.0	7200.1	57736.0	7200.5	55880.0	7200.5
lin37-p	1081228.0	7202.0	100116.0	7213.5	114001.0	7200.4	99560.0	7200.7	102446.0	7201.7	99960.0	7266.8
hc12p-p	448002.0	7201.0	236377.0	7200.3	236042.0	7200.0	238185.0	7200.0	241896.0	7200.7	236377.0	7203.0
hc12u-p	4095.0	7202.0	2263.0	7200.3	2265.0	5043.0	2279.0	7200.4	2335.0	7199.9	2262.0	7203.0
cc12-2p-p	275263.0	7201.0	123838.0	7241.4	121091.0	7200.0	122578.0	7200.3	123745.0	7199.1	125071.0	7200.1
cc12-2u-p	8361.0	7201.0	1187.0	7425.8	1177.0	7200.1	1184.0	7200.2	1199.0	7199.8	1189.0	7228.8
cc12-2n-p	671.0	7201.0	619.0	7270.0	615.0	6930.6	619.0	7200.2	624.0	7198.3	618.0	7266.5
cc3-12n-p	113.0	7201.0	111.0	7200.1	111.0	80.0	111.0	5215.4	111.0	7200.4	111.0	7200.4
cc3-12p-p	19735.0	7200.0	18865.0	7200.0	18932.0	7200.1	18902.0	7200.1	19289.0	7200.1	18952.0	7200.1
cc3-12u-p	198.0	7201.0	185.0	7200.1	186.0	365.7	185.0	7200.0	188.0	7198.0	185.0	7200.1
bipa2p-p	35775.0	7200.0	35400.0	7200.3	35336.0	3397.6	35812.0	7200.1	35876.0	7200.2	35400.0	7200.4
bipa2u-p	342.0	7200.0	337.0	7200.2	339.0	73.2	341.0	7200.0	341.0	7201.3	337.0	7200.3
2r211c-p	97000.0	7200.0	89000.0	490.0	90000.0	1280.3	89000.0	1011.4	89000.0	190.6	89000.0	7200.1
wrp3-83-p	33615000.0	7200.0	8300911.0	7201.0	8301263.0	2774.4	8300906.0	7102.8	8300939.0	7198.6	8300910.0	7201.4
w23c23-p	693.0	7200.0	689.0	68.1	693.0	114.8	696.0	2081.6	694.0	7200.4	689.0	67.7
rc09-p	166800.0	7205.0	111005.0	1873.8	122358.0	7200.0	111077.0	7200.0	112005.0	7199.6	111005.0	1745.2
rt05-p	1650179.0	7201.0	51588.0	7223.9	59147.0	7200.0	51354.0	7200.1	53217.0	7200.7	51809.0	7200.6
G106ac-p	151634246.0	7203.0	36920936.0	7405.8	40346932.0	7200.6	36943106.0	7202.7	37954229.0	7200.9	36920936.0	7220.0
l064ac-p	408901305.0	7292.0	186854012.0	7262.3	188479558.0	7200.0	186852309.0	7201.0	187052480.0	7207.2	186856520.0	7200.4
s5-p	36414.0	7204.0	25210.0	46.8	25210.0	616.9	25210.0	7200.2	25210.0	7197.4	25210.0	47.5
Formula 1	41.2		167.8		137.0		168.3		95.4		168.2	
Average	68958.9	6760.7	24602.9	3122.8	25362.3	2613.1	24618.8	5097.5	24877.0	3821.6	24606.0	3470.5

SPG 1 Thread: Primal Integral

Name	AB		mozartballs		polito		PUW		scipjack		staynerd	
	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time	Plnt	Time
d18-p	0.0	1046.0	0.4	4.7	33.3	23.3	32.2	960.6	5.0	10.7	0.4	4.7
e18-p	7037.4	7201.0	2.3	177.9	22.0	4413.2	38.1	3689.3	34.0	454.2	2.2	174.1
i640-211-p	71.4	7200.0	32.2	7200.7	0.4	4394.7	24.4	2343.0	9.2	7199.6	9.5	7200.7
i640-314-p	32.7	7200.0	31.3	7200.5	0.4	2133.0	12.0	3207.0	16.9	7200.3	2.2	7200.0
i640-341-p	83.3	7201.0	16.9	7201.5	7.1	6796.0	5.5	7200.3	30.7	7200.8	14.4	7200.2
fnl4461fst-p	4342.3	7201.0	6.4	7235.0	448.4	7200.0	3.7	7200.6	4799.8	7197.2	7.5	7200.4
world666-p	7129.2	7205.0	7.8	3778.4	455.6	7200.0	0.1	790.3	3.1	13.3	3.1	7201.5
alue7080-p	6025.7	7202.0	18.5	7229.2	578.8	7200.8	2.0	7201.0	7200.0	7197.3	10.1	7200.7
alut2625-p	6634.4	7251.0	43.6	7220.6	1067.4	7200.1	1.6	7200.2	2328.3	7329.5	32.0	7279.3
es10000fst01-p	3624.0	7312.0	2.6	7322.3	464.7	7200.5	5.9	7201.0	7200.0	7310.6	4.1	7202.1
lin36-p	6579.4	7202.0	77.6	7208.3	1033.0	7200.9	0.5	7200.1	829.5	7200.5	42.4	7200.5
lin37-p	6537.1	7202.0	40.9	7213.5	978.1	7200.4	1.2	7200.7	774.5	7201.7	32.4	7266.8
hc12p-p	3407.6	7201.0	27.0	7200.3	7.0	7200.0	82.2	7200.0	190.2	7200.7	27.0	7203.0
hc12u-p	3222.9	7202.0	15.5	7200.3	15.8	5043.0	109.8	7200.4	243.4	7199.9	13.1	7203.0
cc12-2p-p	4032.7	7201.0	163.7	7241.4	18.1	7200.0	118.8	7200.3	200.4	7199.1	232.2	7200.1
cc12-2u-p	6186.4	7201.0	65.5	7425.8	3.3	7200.1	84.3	7200.2	162.2	7199.8	84.9	7228.8
cc12-2n-p	601.9	7201.0	51.1	7270.0	2.5	6930.6	51.8	7200.2	136.3	7198.3	60.4	7266.5
cc3-12n-p	127.5	7201.0	0.4	7200.1	1.8	80.0	0.1	5215.4	3.0	7200.4	0.4	7200.4
cc3-12p-p	317.5	7200.0	2.2	7200.0	64.8	7200.1	16.1	7200.1	185.7	7200.1	36.2	7200.1
cc3-12u-p	473.1	7201.0	0.5	7200.1	40.7	365.7	11.6	7200.0	124.5	7198.0	0.4	7200.1
bipa2p-p	89.3	7200.0	16.8	7200.3	2.5	3397.6	105.3	7200.1	128.8	7200.2	16.8	7200.4
bipa2u-p	105.3	7200.0	2.9	7200.2	42.8	73.2	98.4	7200.0	146.2	7201.3	3.2	7200.3
2r211c-p	594.0	7200.0	0.5	490.0	80.7	1280.3	0.0	1011.4	0.8	190.6	0.4	7200.1
wrp3-83-p	5422.0	7200.0	0.1	7201.0	0.4	2774.4	0.0	7102.8	3.9	7198.6	0.1	7201.4
w23c23-p	41.6	7200.0	0.4	68.1	41.7	114.8	74.5	2081.6	75.8	7200.4	0.4	67.7
rc09-p	2409.4	7205.0	2.6	1873.8	724.5	7200.0	9.3	7200.0	101.1	7199.6	2.4	1745.2
rt05-p	6975.9	7201.0	54.7	7223.9	949.3	7200.0	9.4	7200.1	363.7	7200.7	63.9	7200.6
G106ac-p	5446.9	7203.0	1.4	7405.8	855.2	7200.6	5.7	7202.7	978.4	7200.9	1.5	7220.0
I064ac-p	3909.9	7292.0	0.8	7262.3	154.5	7200.0	0.3	7201.0	412.1	7207.2	0.9	7200.4
s5-p	2215.3	7204.0	2.4	46.8	54.7	616.9	0.2	7200.2	329.6	7197.4	2.4	47.5
Formula 1	48.0		162.0		137.0		190.0		69.0		174.0	
Average	996.9	6760.7	8.0	3122.8	48.8	2613.1	9.3	5097.5	128.7	3821.6	7.3	3470.5

Name	AB		scipjack		staynerd		mozartballs	
	gap	Time	gap	Time	gap	Time	gap	Time
d18-p	0.0	1046.0	0.0	10.7	0.0	4.7	0.0	4.7
e18-p	100.0	7201.0	0.0	454.2	0.0	174.1	0.0	177.9
i640-211-p	2.8	7200.0	0.9	7199.6	0.5	7200.7	0.9	7200.7
i640-314-p	2.1	7200.0	1.3	7200.3	100.0	7200.0	1.1	7200.5
i640-341-p	2.0	7201.0	0.8	7200.8	100.0	7200.2	0.7	7201.5
fnl4461fst-p	67.8	7201.0	27.7	7197.2	2.0	7200.4	0.4	7235.0
world666-p	100.0	7205.0	0.0	13.3	100.0	7201.5	0.0	3778.4
alue7080-p	87.4	7202.0	100.0	7197.3	2.0	7200.7	2.1	7229.2
alut2625-p	95.4	7251.0	18.4	7329.5	4.1	7279.3	4.2	7220.6
es10000fst01-p	58.9	7312.0	100.0	7310.6	1.3	7202.1	0.1	7322.3
lin36-p	98.7	7202.0	29.6	7200.5	6.8	7200.5	7.3	7208.3
lin37-p	97.6	7202.0	28.1	7201.7	4.4	7266.8	4.5	7213.5
hc12p-p	100.0	7201.0	3.8	7200.7	100.0	7203.0	1.5	7200.3
hc12u-p	45.4	7202.0	5.0	7199.9	100.0	7203.0	1.3	7200.3
cc12-2p-p	57.1	7201.0	4.3	7199.1	100.0	7200.1	4.4	7241.4
cc12-2u-p	86.3	7201.0	4.3	7199.8	100.0	7228.8	3.3	7425.8
cc12-2n-p	10.1	7201.0	2.7	7198.3	100.0	7266.5	1.6	7270.0
cc3-12n-p	13.3	7201.0	11.6	7200.4	100.0	7200.4	10.8	7200.1
cc3-12p-p	11.9	7200.0	8.0	7200.1	100.0	7200.1	1.4	7200.0
cc3-12u-p	13.6	7201.0	8.4	7198.0	100.0	7200.1	7.0	7200.1
bipa2p-p	3.1	7200.0	3.3	7200.2	100.0	7200.4	1.9	7200.3
bipa2u-p	3.5	7200.0	3.4	7201.3	100.0	7200.3	2.1	7200.2
2r211c-p	23.1	7200.0	0.0	190.6	100.0	7200.1	0.0	490.0
wrp3-83-p	75.6	7200.0	0.0	7198.6	0.0	7201.4	0.0	7201.0
w23c23-p	0.6	7200.0	0.7	7200.4	0.0	67.7	0.0	68.1
rc09-p	63.8	7205.0	2.7	7199.6	0.0	1745.2	0.0	1873.8
rt05-p	98.8	7201.0	14.7	7200.7	3.0	7200.6	1.6	7223.9
G106ac-p	100.0	7203.0	17.8	7200.9	1.0	7220.0	0.5	7405.8
l064ac-p	55.6	7292.0	0.9	7207.2	0.1	7200.4	0.0	7262.3
s5-p	100.0	7204.0	15.0	7197.4	0.0	47.5	0.0	46.8
Formula 1	94.8	3.0	152.4	28.0	166.4	44.0	256.4	48.0
Average	52.5	6760.7	13.8	3821.6	47.5	3470.5	2.0	3122.8

Name	AB		fscipjacksp		polito		mozartduet		staynerd	
	PB	Time	PB	Time	PB	Time	PB	Time	PB	Time
d18-p	223.0	1210.0	223.0	9.8	224.0	34.5	223.0	5.0	223.0	4.9
e18-p	24977.0	7201.0	564.0	6289.2	565.0	7200.3	564.0	187.9	564.0	293.6
i640-211-p	12025.0	7201.0	11991.0	56026.0	11984.0	7200.0	11984.0	7201.3	11984.0	3083.3
i640-314-p	35661.0	7201.0	35604.0	56369.5	35546.0	7200.0	35532.0	7201.1	35543.0	7200.1
i640-341-p	32389.0	7201.0	32118.0	44924.7	32114.0	7200.1	32115.0	7202.0	32113.0	7200.8
fnl4461fst-p	459882.0	7201.0	-	7216.7	193364.0	7200.4	182729.0	7294.7	182735.0	7200.9
world666-p	12453462.0	7204.0	122467.0	29.9	131207.0	7200.1	122467.0	3810.2	122467.0	7205.3
alue7080-p	383286.0	7203.0	-	7209.7	67871.0	7201.1	62627.0	7238.9	62594.0	7202.8
alut2625-p	451526.0	7202.0	35757.0	7211.3	41395.0	7200.1	35618.0	7228.3	35607.0	7203.0
es10000fst01-p	1442738340.0	8092.0	-	7365.9	764427342.0	7200.2	716877244.0	7344.2	716866079.0	7201.6
lin36-p	-	7200.0	56644.0	7218.9	64841.0	7200.5	55907.0	7210.9	55848.0	7212.7
lin37-p	2953338.0	7202.0	100352.0	7218.9	113534.0	7201.2	99937.0	7252.2	99914.0	7206.0
hc12p-p	448002.0	7201.0	245175.0	7290.0	235971.0	7200.1	236496.0	7208.0	236539.0	7213.6
hc12u-p	4095.0	7201.0	2386.0	7198.2	2271.0	7200.1	2263.0	7206.0	2262.0	7205.8
cc12-2p-p	861854.0	7201.0	123920.0	7196.0	121273.0	7200.0	123838.0	7250.9	124646.0	7200.8
cc12-2u-p	8361.0	7201.0	1211.0	7193.6	1177.0	7200.1	1187.0	7430.9	1198.0	7200.9
cc12-2n-p	654.0	7201.0	625.0	7207.1	615.0	7200.0	618.0	7271.3	618.0	7218.5
cc3-12n-p	111.0	7201.0	112.0	7217.4	111.0	263.9	111.0	7210.4	111.0	7200.7
cc3-12p-p	19630.0	7200.0	19646.0	7195.5	18997.0	7200.0	18942.0	7201.5	18871.0	7200.6
cc3-12u-p	193.0	7201.0	191.0	7215.3	187.0	432.5	185.0	7202.4	185.0	7204.2
bipa2p-p	35768.0	7201.0	36144.0	43658.8	35333.0	7200.1	35364.0	7201.0	35347.0	7200.7
bipa2u-p	344.0	7202.0	349.0	39829.3	338.0	1614.5	337.0	7201.0	337.0	7200.5
2r211c-p	97000.0	7200.0	89000.0	15820.8	91000.0	938.4	89000.0	786.6	89000.0	7200.1
wrp3-83-p	8901813.0	7211.0	8300924.0	7196.2	8301274.0	2809.0	8300908.0	7201.3	8300910.0	7201.0
w23c23-p	693.0	7202.0	699.0	7195.4	694.0	126.6	689.0	72.4	689.0	68.7
rc09-p	-	7200.0	112742.0	7216.4	122536.0	7200.0	111005.0	1919.6	111005.0	1769.7
rt05-p	-	7200.0	52430.0	7196.1	59216.0	7200.1	51497.0	7223.9	51749.0	7205.5
G106ac-p	151634246.0	7203.0	37174629.0	7284.2	40839837.0	7201.8	36921035.0	7477.2	36922647.0	7205.6
I064ac-p	408901305.0	7464.0	186915954.0	7194.1	189008219.0	7200.7	186853328.0	7274.1	186856940.0	7201.8
s5-p	36414.0	7205.0	25210.0	7197.1	25210.0	186.6	25210.0	57.3	25210.0	46.8
Formula 1	69.5		101.5		144.2		206.9		215.9	
Average	50554.0	6820.7	20144.5	6783.1	20305.1	3280.5	19904.7	3218.6	19913.8	3435.4

SPG 8 Threads: Primal Integral

Name	AB		fscipjackspcx		polito		mozartduet		staynerd	
	PInt	Time	PInt	Time	PInt	Time	PInt	Time	PInt	Time
d18-p	0.0	1210.0	5.0	9.8	34.7	34.5	0.4	5.0	0.4	4.9
e18-p	7037.4	7201.0	41.8	6289.2	45.9	7200.3	3.3	187.9	2.1	293.6
i640-211-p	24.6	7201.0	199.9	56026.0	7.5	7200.0	8.5	7201.3	0.4	3083.3
i640-314-p	26.1	7201.0	184.7	56369.5	6.5	7200.0	2.9	7201.1	4.8	7200.1
i640-341-p	77.2	7201.0	34.6	44924.7	17.9	7200.1	17.3	7202.0	17.4	7200.8
fnl4461fst-p	4342.3	7201.0	7200.0	7216.7	438.9	7200.4	8.3	7294.7	8.6	7200.9
world666-p	7129.2	7204.0	3.2	29.9	493.8	7200.1	4.0	3810.2	3.1	7205.3
alut7080-p	6025.7	7203.0	7200.0	7209.7	573.5	7201.1	14.1	7238.9	10.5	7202.8
alut2625-p	6634.4	7202.0	2200.6	7211.3	1069.3	7200.1	32.1	7228.3	30.8	7203.0
es10000fst01-p	3624.0	8092.0	7200.0	7365.9	462.2	7200.2	3.8	7344.2	3.7	7201.6
lin36-p	7200.0	7200.0	711.3	7218.9	1089.3	7200.5	42.6	7210.9	34.5	7212.7
lin37-p	6957.3	7202.0	644.2	7218.9	973.7	7201.2	32.0	7252.2	26.9	7206.0
hc12p-p	3407.6	7201.0	284.2	7290.0	9.1	7200.1	37.8	7208.0	40.5	7213.6
hc12u-p	3222.9	7201.0	382.2	7198.2	30.4	7200.1	24.1	7206.0	23.4	7205.8
cc12-2p-p	6188.4	7201.0	186.5	7196.0	31.7	7200.0	165.7	7250.9	221.3	7200.8
cc12-2u-p	6186.4	7201.0	213.3	7193.6	16.7	7200.1	65.8	7430.9	129.4	7200.9
cc12-2n-p	429.9	7201.0	131.8	7207.1	7.8	7200.0	42.9	7271.3	58.3	7218.5
cc3-12n-p	0.0	7201.0	67.3	7217.4	1.7	263.9	0.4	7210.4	0.4	7200.7
cc3-12p-p	280.7	7200.0	290.4	7195.5	283.1	7200.0	34.1	7201.5	11.7	7200.6
cc3-12u-p	298.5	7201.0	229.9	7215.3	79.3	432.5	0.4	7202.4	0.4	7204.2
bipa2p-p	87.8	7201.0	202.8	43658.8	8.4	7200.1	11.9	7201.0	8.1	7200.7
bipa2u-p	146.6	7202.0	268.4	39829.3	21.7	1614.5	4.4	7201.0	4.8	7200.5
2r211c-p	594.0	7200.0	1.1	15820.8	159.9	938.4	0.3	786.6	0.4	7200.1
wr3-83-p	486.6	7211.0	3.8	7196.2	0.5	2809.0	0.1	7201.3	0.1	7201.0
w23c23-p	41.6	7202.0	103.7	7195.4	52.1	126.6	0.4	72.4	0.4	68.7
rc09-p	7200.0	7200.0	153.5	7216.4	761.3	7200.0	2.8	1919.6	2.6	1769.7
rt05-p	7200.0	7200.0	261.6	7196.1	956.7	7200.1	20.8	7223.9	55.5	7205.5
G106ac-p	5446.9	7203.0	846.6	7284.2	941.1	7201.8	116.2	7477.2	1.7	7205.6
I064ac-p	3909.9	7464.0	390.0	7194.1	191.6	7200.7	0.8	7274.1	0.9	7201.8
s5-p	2215.3	7205.0	327.8	7197.1	56.2	186.6	2.6	57.3	2.2	46.8
Formula 1	87.0		91.0		135.0		200.0		237.0	
Average	776.7	6820.7	192.2	6783.1	75.1	3280.5	8.5	3218.6	6.8	3435.4

SPG 8 Threads: Exact

Name	AB		fscipjackspjx		mozartballs		mozartduet		staynerd		hedgekiller	
	gap	Time	gap	Time	gap	Time	gap	Time	gap	Time	gap	Time
d18-p	0.0	1210.0	0.0	9.8	0.0	4.7	0.0	5.0	0.0	4.9	0.0	5.0
e18-p	100.0	7201.0	0.0	6289.2	0.0	341.7	0.0	187.9	0.0	293.6	0.0	194.0
i640-211-p	2.2	7201.0	1.4	56026.0	0.0	5138.4	0.1	7201.3	0.0	3083.3	0.7	7202.0
i640-314-p	1.9	7201.0	1.5	56369.5	1.1	5314.8	0.9	7201.1	100.0	7200.1	0.8	7201.4
i640-341-p	2.0	7201.0	0.8	44924.7	0.7	7202.5	0.8	7202.0	100.0	7200.8	0.7	7202.7
fnl4461fst-p	67.8	7201.0	100.0	7216.7	0.3	7236.1	0.6	7294.7	2.0	7200.9	0.5	7240.0
world666-p	99.2	7204.0	0.0	29.9	0.0	3802.0	0.0	3810.2	100.0	7205.3	0.0	3823.0
alue7080-p	87.4	7203.0	100.0	7209.7	2.2	7230.0	2.1	7238.9	2.0	7202.8	2.0	7235.0
alut2625-p	95.4	7202.0	100.0	7211.3	4.5	7221.8	4.1	7228.3	4.0	7203.0	4.2	7228.2
es10000fst01-p	58.9	8092.0	100.0	7365.9	0.1	7323.0	0.2	7344.2	1.3	7201.6	0.2	7352.7
lin36-p	100.0	7200.0	100.0	7218.9	7.4	7209.0	6.9	7210.9	6.8	7212.7	6.7	7209.7
lin37-p	99.1	7202.0	100.0	7218.9	4.6	7214.3	4.3	7252.2	4.3	7206.0	4.3	7218.9
hc12p-p	100.0	7201.0	5.2	7290.0	1.6	7200.7	1.5	7208.0	100.0	7213.6	1.5	7210.8
hc12u-p	45.4	7201.0	7.1	7198.2	1.4	7200.8	1.3	7206.0	100.0	7205.8	1.2	7206.3
cc12-2p-p	86.3	7201.0	4.4	7196.0	4.4	7240.8	4.4	7250.9	100.0	7200.8	4.4	7244.4
cc12-2u-p	100.0	7201.0	5.1	7193.6	3.0	7417.0	3.3	7430.9	100.0	7200.9	3.2	7418.5
cc12-2n-p	8.0	7201.0	97.8	7207.1	1.6	7268.8	1.6	7271.3	100.0	7218.5	1.6	7276.7
cc3-12n-p	11.7	7201.0	33.9	7217.4	10.8	7200.3	10.8	7210.4	100.0	7200.7	10.8	7201.0
cc3-12p-p	11.5	7200.0	9.5	7195.5	1.9	7200.4	1.8	7201.5	100.0	7200.6	1.8	7200.8
cc3-12u-p	11.4	7201.0	22.0	7215.3	6.5	7200.3	7.0	7202.4	100.0	7204.2	7.0	7202.4
bipa2p-p	3.1	7201.0	4.2	43658.8	1.7	7200.4	1.8	7201.0	100.0	7200.7	1.7	7201.3
bipa2u-p	4.1	7202.0	5.7	39829.3	1.8	7200.5	2.1	7201.0	100.0	7200.5	2.4	7201.0
2r211c-p	23.1	7200.0	0.0	15820.8	0.0	470.7	0.0	786.6	100.0	7200.1	0.0	640.0
wrp3-83-p	7.8	7211.0	0.0	7196.2	0.0	7201.2	0.0	7201.3	0.0	7201.0	0.0	7202.2
w23c23-p	1.3	7202.0	1.4	7195.4	0.0	68.0	0.0	72.4	0.0	68.7	0.0	69.4
rc09-p	100.0	7200.0	72.4	7216.4	0.0	1825.3	0.0	1919.6	0.0	1769.7	0.0	1820.1
rt05-p	100.0	7200.0	16.3	7196.1	1.7	7223.6	1.7	7223.9	2.9	7205.5	1.7	7250.3
G106ac-p	82.0	7203.0	100.0	7284.2	0.5	7405.6	0.5	7477.2	1.0	7205.6	0.5	7468.6
I064ac-p	55.6	7464.0	1.0	7194.1	0.0	7262.9	0.0	7274.1	0.1	7201.8	0.0	7268.3
s5-p	100.0	7205.0	15.1	7197.1	0.0	46.8	0.0	57.3	0.0	46.8	0.0	51.3
Formula 1	50.3	1.0	66.8	17.0	194.5	57.0	160.5	30.5	101.3	44.0	191.5	32.5
Average	52.2	6820.7	33.5	6783.1	1.9	3117.3	1.9	3218.6	47.5	3435.4	1.9	3177.4