

```
#####
getDetails and MHz
```

```
Assembler CPUID and RDTSC
CPU GenuineIntel, Features Code BFEBFBFF, Model Code 00020655
Intel(R) Core(TM) i5 CPU          M 520 @ 2.40GHz
Measured - Minimum 2394 MHz, Maximum 2394 MHz
Linux Functions
get_nprocs() - CPUs 4, Configured CPUs 4
get_phys_pages() and size - RAM Size 7.60 GB, Page Size 4096 Bytes
uname() - Linux, halopad, 4.4.0-98-generic
#121-Ubuntu SMP Tue Oct 10 14:24:03 UTC 2017, x86_64
```

```
#####
```

Dhrystone Benchmark, Version 1.1 (Language: C or C++)

Optimisation No Opt 64 Bit

10000 runs	0.00 seconds
100000 runs	0.01 seconds
1000000 runs	0.11 seconds
2000000 runs	0.22 seconds
4000000 runs	0.44 seconds
8000000 runs	0.87 seconds
16000000 runs	1.75 seconds
32000000 runs	3.50 seconds

Array2Glob8/7: O.K. 32000010

Microseconds for one run through Dhrystone:	0.11
Dhrystones per Second:	9145624
VAX MIPS rating =	5205.25

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Intel(R) Core(TM) i5 CPU          M 520 @ 2.40GHz
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uname() - Linux, halopad, 4.4.0-98-generic
#121-Ubuntu SMP Tue Oct 10 14:24:03 UTC 2017, x86_64
```

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#####
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Dhrystone Benchmark, Version 1.1 (Language: C or C++)

Optimisation Opt 3 64 Bit

10000 runs	0.00 seconds
100000 runs	0.00 seconds
1000000 runs	0.02 seconds
10000000 runs	0.24 seconds
20000000 runs	0.49 seconds
40000000 runs	0.97 seconds
80000000 runs	1.95 seconds
160000000 runs	3.90 seconds

Array2Glob8/7: O.K. 160000010

Microseconds for one run through Dhrystone: 0.02
 Dhrystones per Second: 41000956
 VAX MIPS rating = 23335.77

 getDetails and MHz

Assembler CUID and RDTSC
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 Intel(R) Core(TM) i5 CPU M 520 @ 2.40GHz
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 Linux Functions
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 get_phys_pages() and size - RAM Size 7.60 GB, Page Size 4096 Bytes
 uname() - Linux, halopad, 4.4.0-98-generic
 #121-Ubuntu SMP Tue Oct 10 14:24:03 UTC 2017, x86_64

#####

Dhrystone Benchmark, Version 2.1 (Language: C or C++)

Optimisation No Opt 64 Bit
 Register option not selected

10000 runs	0.00 seconds
100000 runs	0.01 seconds
1000000 runs	0.11 seconds
2000000 runs	0.22 seconds
4000000 runs	0.44 seconds
8000000 runs	0.90 seconds
16000000 runs	1.78 seconds
32000000 runs	3.55 seconds

Final values (* implementation-dependent):

Int_Glob:	O.K.	5	Bool_Glob:	O.K.	1
Ch_1_Glob:	O.K.	A	Ch_2_Glob:	O.K.	B
Arr_1_Glob[8]:	O.K.	7	Arr_2_Glob8/7:	O.K.	32000010
Ptr_Glob->			Ptr_Comp:	*	19796544
Discr:	O.K.	0	Enum_Comp:	O.K.	2
Int_Comp:	O.K.	17	Str_Comp:	O.K.	DHRYSTONE PROGRAM, SOME STRING
Next_Ptr_Glob->			Ptr_Comp:	*	19796544 same as above
Discr:	O.K.	0	Enum_Comp:	O.K.	1
Int_Comp:	O.K.	18	Str_Comp:	O.K.	DHRYSTONE PROGRAM, SOME STRING
Int_1_Loc:	O.K.	5	Int_2_Loc:	O.K.	13
Int_3_Loc:	O.K.	7	Enum_Loc:	O.K.	1
Str_1_Loc:				O.K.	DHRYSTONE PROGRAM, 1'ST STRING
Str_2_Loc:				O.K.	DHRYSTONE PROGRAM, 2'ND STRING

Microseconds for one run through Dhrystone: 0.11
 Dhrystones per Second: 9015198
 VAX MIPS rating = 5131.02

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Assembler CUID and RDTSC
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```

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```

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#####
```

Dhrystone Benchmark, Version 2.1 (Language: C or C++)

```

Optimisation    Opt 3 64 Bit
Register option not selected

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    10000 runs    0.00 seconds
   100000 runs    0.00 seconds
  1000000 runs    0.04 seconds
 10000000 runs    0.38 seconds
 20000000 runs    0.75 seconds
 40000000 runs    1.50 seconds
 80000000 runs    3.00 seconds

```

Final values (* implementation-dependent):

```

Int_Glob:      0.K.  5  Bool_Glob:      0.K.  1
Ch_1_Glob:     0.K.  A  Ch_2_Glob:     0.K.  B
Arr_1_Glob[8]: 0.K.  7  Arr_2_Glob8/7: 0.K.  80000010
Ptr_Glob->     0.K.  *  Ptr_Comp:      *  30138944
  Discr:       0.K.  0  Enum_Comp:     0.K.  2
  Int_Comp:    0.K. 17  Str_Comp:      0.K.  DHRYSTONE PROGRAM, SOME STRING
Next_Ptr_Glob-> 0.K.  *  Ptr_Comp:      *  30138944 same as above
  Discr:       0.K.  0  Enum_Comp:     0.K.  1
  Int_Comp:    0.K. 18  Str_Comp:      0.K.  DHRYSTONE PROGRAM, SOME STRING
Int_1_Loc:     0.K.  5  Int_2_Loc:     0.K. 13
Int_3_Loc:     0.K.  7  Enum_Loc:      0.K.  1
Str_1_Loc:     0.K.  *  Str_1_Loc:     0.K.  DHRYSTONE PROGRAM, 1'ST STRING
Str_2_Loc:     0.K.  *  Str_2_Loc:     0.K.  DHRYSTONE PROGRAM, 2'ND STRING

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Microseconds for one run through Dhrystone:      0.04
Dhrystones per Second:                          26703221
VAX MIPS rating =                                15198.19

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#121-Ubuntu SMP Tue Oct 10 14:24:03 UTC 2017, x86_64

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#####
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Unrolled Double Precision Linpack Benchmark - PC Version in 'C/C++'

Optimisation No Opt 64 Bit

```
norm resid      resid      machep      x[0]-1      x[n-1]-1
  1.7      7.41628980e-14  2.22044605e-16  -1.49880108e-14  -1.89848137e-14
```

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```
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CPU GenuineIntel, Features Code BFEBFBFF, Model Code 00020655
Intel(R) Core(TM) i5 CPU      M 520  @ 2.40GHz
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#####
Unrolled Double Precision Linpack Benchmark - PC Version in 'C/C++'
```

Optimisation Opt 3 64 Bit

```
norm resid      resid      machep      x[0]-1      x[n-1]-1
  1.7      7.41628980e-14  2.22044605e-16  -1.49880108e-14  -1.89848137e-14
```

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getDetails and MHz
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Assembler CpuID and RDTSC
CPU GenuineIntel, Features Code BFEBFBFF, Model Code 00020655
Intel(R) Core(TM) i5 CPU      M 520  @ 2.40GHz
Measured - Minimum 2394 MHz, Maximum 2394 MHz
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uname() - Linux, halopad, 4.4.0-98-generic
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```

```
#####
Single Precision C Whetstone Benchmark No Opt 64 Bit, Fri Nov 17 15:06:14 2017
```

Calibrate

```
0.00 Seconds      1  Passes (x 100)
0.02 Seconds      5  Passes (x 100)
0.11 Seconds     25  Passes (x 100)
0.57 Seconds    125  Passes (x 100)
2.87 Seconds    625  Passes (x 100)
```

Use 2175 passes (x 100)

Single Precision C/C++ Whetstone Benchmark

Loop content	Result	MFLOPS	MOPS	Seconds
N1 floating point	-1.12475013732910156	657.531		0.064
N2 floating point	-1.12274742126464844	627.785		0.466
N3 if then else	1.000000000000000000		858.159	0.262
N4 fixed point	12.000000000000000000		995.285	0.688

N5 sin,cos etc.	0.49911010265350342	87.930	2.058
N6 floating point	0.99999982118606567	349.700	3.355
N7 assignments	3.000000000000000000	320.813	1.253
N8 exp,sqrt etc.	0.75110864639282227	43.167	1.874
MWIPS	2170.671		10.020

A new results file, whets.txt, will have been created in the same directory as the .EXE files, if one did not already exist.

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getDetails and MHz
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CPU GenuineIntel, Features Code BFEBFBFF, Model Code 00020655
Intel(R) Core(TM) i5 CPU M 520 @ 2.40GHz
Measured - Minimum 2394 MHz, Maximum 2394 MHz
Linux Functions
get_nprocs() - CPUs 4, Configured CPUs 4
get_phys_pages() and size - RAM Size 7.60 GB, Page Size 4096 Bytes
uname() - Linux, halopad, 4.4.0-98-generic
#121-Ubuntu SMP Tue Oct 10 14:24:03 UTC 2017, x86_64
```

```
#####
Single Precision C Whetstone Benchmark Opt 3 64 Bit, Fri Nov 17 15:06:33 2017
```

```
Calibrate
0.00 Seconds      1  Passes (x 100)
0.01 Seconds      5  Passes (x 100)
0.07 Seconds     25  Passes (x 100)
0.35 Seconds    125  Passes (x 100)
1.73 Seconds    625  Passes (x 100)
8.68 Seconds   3125  Passes (x 100)
```

Use 3601 passes (x 100)

Single Precision C/C++ Whetstone Benchmark

Loop content	Result	MFLOPS	MOPS	Seconds
N1 floating point	-1.12475013732910156	1084.797		0.064
N2 floating point	-1.12274742126464844	1084.326		0.446
N3 if then else	1.000000000000000000		4381.279	0.085
N4 fixed point	12.000000000000000000		4868.324	0.233
N5 sin,cos etc.	0.49911010265350342		90.614	3.306
N6 floating point	0.99999982118606567	795.112		2.443
N7 assignments	3.000000000000000000		1544.328	0.431
N8 exp,sqrt etc.	0.75110864639282227		44.759	2.993
MWIPS	3600.585			10.001

A new results file, whets.txt, will have been created in the same directory as the .EXE files, if one did not already exist.

L.L.N.L. 'C' KERNELS: MFLOPS P.C. VERSION 4.0

Optimisation No Opt 64 Bit

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Linux Functions

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uname() - Linux, halopad, 4.4.0-98-generic

#121-Ubuntu SMP Tue Oct 10 14:24:03 UTC 2017, x86_64

Calculating outer loop overhead

1000 times 0.00 seconds
 10000 times 0.00 seconds
 100000 times 0.00 seconds
 1000000 times 0.00 seconds
 10000000 times 0.04 seconds
 20000000 times 0.09 seconds
 40000000 times 0.18 seconds
 80000000 times 0.36 seconds

Overhead for each loop 4.4720e-09 seconds

Calibrating part 1 of 3

Loop count 4 0.00 seconds
 Loop count 16 0.00 seconds
 Loop count 64 0.00 seconds

Loops 200 x 1 x Passes

Kernel No	Passes	E	No	Floating Pt ops Total	Secs.	MFLOPS	Span	Checksums	OK
1	7 x	138	5	9.669660e+08	1.01	958.64	1001	5.114652693224671e+04	16
2	67 x	112	4	5.823104e+08	1.00	580.66	101	1.539721811668385e+03	15
3	9 x	161	2	5.801796e+08	1.00	578.68	1001	1.000742883066363e+01	15
4	14 x	142	2	4.771200e+08	1.00	476.92	1001	5.999250595473891e-01	16
5	10 x	96	2	3.840000e+08	1.01	381.47	1001	4.548871642387267e+03	16
6	3 x	160	2	3.809280e+08	1.00	379.21	64	4.375116344729986e+03	16
7	4 x	115	16	1.464640e+09	1.02	1441.85	995	6.104251075174761e+04	16
8	10 x	47	36	6.700320e+08	1.03	652.21	100	1.501268005625795e+05	15
9	36 x	84	17	1.038442e+09	1.01	1023.28	101	1.189443609974981e+05	16
10	34 x	51	9	3.152412e+08	1.02	309.53	101	7.310369784325296e+04	16
11	11 x	126	1	2.772000e+08	1.01	275.26	1001	3.342910972650109e+07	16
12	12 x	119	1	2.856000e+08	1.01	281.82	1000	2.907141294167248e-05	16
13	36 x	70	7	2.257920e+08	1.02	222.30	64	1.202533961842805e+11	15
14	2 x	80	11	3.523520e+08	1.01	348.30	1001	3.165553044000335e+09	15
15	1 x	155	33	5.115000e+08	1.00	509.19	101	3.943816690352044e+04	15
16	25 x	171	10	4.531500e+08	1.00	451.61	75	5.650760000000000e+05	16
17	35 x	111	9	7.062930e+08	1.00	704.47	101	1.114641772902486e+03	16
18	2 x	52	44	4.530240e+08	1.01	449.38	100	1.015727037502299e+05	15
19	39 x	74	6	3.497832e+08	1.01	345.03	101	5.421816960147207e+02	16
20	1 x	163	26	8.476000e+08	1.01	843.28	1000	3.040644339351239e+07	16
21	1 x	11	2	2.777500e+08	1.01	275.93	101	1.597308280710199e+08	15
22	11 x	113	17	4.268462e+08	1.00	425.16	101	2.938604376566697e+02	16
23	8 x	58	11	5.052960e+08	1.01	501.34	100	3.549900501563623e+04	16
24	5 x	349	1	3.490000e+08	1.00	347.40	1001	5.000000000000000e+02	16

Maximum Rate 1441.85

Average Rate 531.79

Geometric Mean 474.77
 Harmonic Mean 431.73
 Minimum Rate 222.30

Do Span 471

Calibrating part 2 of 3

Loop count 8 0.00 seconds
 Loop count 32 0.00 seconds
 Loop count 128 0.00 seconds

Loops 200 x 2 x Passes

Kernel No	Passes	E	Floating Pt ops No Total	Secs.	MFLOPS	Span	Checksums	OK
1	40 x 120	5	9.696000e+08	1.01	961.98	101	5.253344778937972e+02	16
2	40 x 94	4	5.835520e+08	1.00	580.90	101	1.539721811668385e+03	15
3	53 x 134	2	5.738416e+08	1.01	568.27	101	1.009741436578952e+00	16
4	70 x 140	2	4.704000e+08	1.05	449.21	101	5.999250595473891e-01	16
5	55 x 90	2	3.960000e+08	1.02	389.86	101	4.589031939600982e+01	16
6	7 x 128	2	3.440640e+08	1.01	340.99	32	8.631675645333210e+01	16
7	22 x 102	16	1.450522e+09	1.01	1429.11	101	6.345586315784055e+02	16
8	6 x 39	36	6.671808e+08	1.04	643.65	100	1.501268005625795e+05	15
9	21 x 72	17	1.038442e+09	1.01	1023.19	101	1.189443609974981e+05	16
10	19 x 46	9	3.177864e+08	1.03	309.85	101	7.310369784325296e+04	16
11	64 x 104	1	2.662400e+08	1.00	265.84	101	3.433560407475758e+04	16
12	68 x 106	1	2.883200e+08	1.00	287.39	100	7.127569130821465e-06	16
13	41 x 60	7	2.204160e+08	1.00	220.32	32	9.816387810944356e+10	15
14	10 x 76	11	3.377440e+08	1.02	329.84	101	3.039983465145392e+07	15
15	1 x 78	33	5.148000e+08	1.01	508.65	101	3.943816690352044e+04	15
16	27 x 148	10	4.475520e+08	0.99	452.79	40	6.480410000000000e+05	16
17	20 x 98	9	7.126560e+08	1.01	703.90	101	1.114641772902486e+03	16
18	1 x 52	44	4.530240e+08	1.01	450.21	100	1.015727037502299e+05	15
19	23 x 62	6	3.456624e+08	1.00	344.90	101	5.421816960147207e+02	16
20	8 x 102	26	8.486400e+08	1.00	845.13	100	3.126205178815431e+04	16
21	1 x 11	2	2.750000e+08	1.00	274.09	50	7.824524877232093e+07	16
22	7 x 89	17	4.278764e+08	1.01	425.56	101	2.938604376566697e+02	16
23	5 x 47	11	5.118300e+08	1.02	500.22	100	3.549900501563623e+04	16
24	31 x 262	1	3.248800e+08	1.00	325.94	101	5.000000000000000e+01	16

Maximum Rate 1429.11
 Average Rate 526.32
 Geometric Mean 468.37
 Harmonic Mean 424.94
 Minimum Rate 220.32

Do Span 90

Calibrating part 3 of 3

Loop count 32 0.00 seconds
 Loop count 128 0.00 seconds
 Loop count 512 0.00 seconds

Loops 200 x 8 x Passes

Kernel No	Passes	E	Floating Pt ops No Total	Secs.	MFLOPS	Span	Checksums	OK
--------------	--------	---	-----------------------------	-------	--------	------	-----------	----

1	28	x	169	5	1.022112e+09	1.02	1005.22	27	3.855104502494961e+01	16
2	46	x	168	4	5.440512e+08	1.01	540.50	15	3.953296986903059e+01	16
3	37	x	181	2	5.786208e+08	1.00	578.80	27	2.699309089320672e-01	16
4	38	x	230	2	4.195200e+08	1.00	419.34	27	5.999250595473891e-01	16
5	40	x	128	2	4.259840e+08	0.99	431.13	27	3.182615248447483e+00	16
6	21	x	203	2	3.273984e+08	1.01	323.16	8	1.120309393467088e+00	15
7	20	x	136	16	1.462272e+09	1.01	1440.89	21	2.845720217644024e+01	16
8	9	x	47	36	6.334848e+08	1.02	618.88	14	2.960543667875005e+03	15
9	26	x	100	17	1.060800e+09	1.01	1053.01	15	2.623968460874250e+03	16
10	25	x	55	9	2.970000e+08	1.03	289.63	15	1.651291227698265e+03	16
11	46	x	152	1	2.908672e+08	1.01	288.95	27	6.551161335845770e+02	16
12	48	x	157	1	3.134976e+08	1.02	307.60	26	1.943435981130448e-06	16
13	31	x	76	7	2.110976e+08	1.00	210.55	8	3.847124199949431e+10	15
14	8	x	94	11	3.573504e+08	1.00	356.06	27	2.923540598672009e+06	15
15	1	x	140	33	5.174400e+08	1.00	518.67	15	1.108997288134785e+03	16
16	14	x	188	10	4.632320e+08	1.00	463.29	15	5.152160000000000e+05	16
17	26	x	139	9	7.806240e+08	1.00	781.37	15	2.947368618589361e+01	16
18	2	x	49	44	4.484480e+08	1.00	448.43	14	9.700646212337041e+02	16
19	28	x	88	6	3.548160e+08	1.01	352.15	15	1.268230698051003e+01	15
20	7	x	112	26	8.479744e+08	1.00	843.76	26	5.987713249475302e+02	16
21	1	x	7	2	2.800000e+08	1.04	268.71	20	5.009945671204667e+07	16
22	8	x	138	17	4.504320e+08	1.01	447.89	15	6.109968728263972e+00	16
23	7	x	63	11	5.045040e+08	1.00	506.96	14	4.850340602749970e+02	16
24	23	x	289	1	2.765152e+08	0.93	295.92	27	1.300000000000000e+01	16

Maximum Rate 1440.89
Average Rate 532.95
Geometric Mean 472.12
Harmonic Mean 426.44
Minimum Rate 210.55

Do Span 19

Overall

Part 1 weight 1
Part 2 weight 2
Part 3 weight 1

Maximum Rate 1441.85
Average Rate 529.35
Geometric Mean 470.90
Harmonic Mean 426.99
Minimum Rate 210.55

Do Span 167

L.L.N.L. 'C' KERNELS: MFLOPS P.C. VERSION 4.0

Optimisation Opt 3 64 Bit

getDetails and MHz

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Intel(R) Core(TM) i5 CPU M 520 @ 2.40GHz

Measured - Minimum 2394 MHz, Maximum 2394 MHz

Linux Functions

get_nprocs() - CPUs 4, Configured CPUs 4

get_phys_pages() and size - RAM Size 7.60 GB, Page Size 4096 Bytes


```
uname() - Linux, halopad, 4.4.0-98-generic
#121-Ubuntu SMP Tue Oct 10 14:24:03 UTC 2017, x86_64
```

```
Calculating outer loop overhead
  1000 times    0.00 seconds
 10000 times    0.00 seconds
100000 times    0.00 seconds
1000000 times   0.00 seconds
10000000 times  0.04 seconds
20000000 times  0.08 seconds
40000000 times  0.15 seconds
80000000 times  0.31 seconds
Overhead for each loop  3.8500e-09 seconds
```

Calibrating part 1 of 3

```
Loop count      4  0.00 seconds
Loop count     16  0.00 seconds
Loop count     64  0.00 seconds
```

Loops 200 x 1 x Passes

Kernel No	Passes	E	No	Floating Pt ops Total	Secs.	MFLOPS	Span	Checksums	OK
1	7 x 263	5	1.842841e+09	0.80	2304.73	1001	5.114652693224671e+04	16	
2	67 x 282	4	1.466174e+09	0.73	2014.44	101	1.539721811668385e+03	15	
3	9 x 414	2	1.491890e+09	0.77	1931.76	1001	1.000742883066363e+01	15	
4	14 x 421	2	1.414560e+09	0.76	1851.66	1001	5.999250595473891e-01	16	
5	10 x 98	2	3.920000e+08	1.00	391.63	1001	4.548871642387267e+03	16	
6	3 x 442	2	1.052314e+09	0.74	1422.22	64	4.375116344729986e+03	16	
7	4 x 174	16	2.216064e+09	0.65	3430.94	995	6.104251075174761e+04	16	
8	10 x 195	36	2.779920e+09	0.69	4006.14	100	1.501268005625795e+05	15	
9	36 x 176	17	2.175782e+09	0.80	2713.82	101	1.189443609974981e+05	16	
10	34 x 153	9	9.457236e+08	0.80	1179.54	101	7.310369784325296e+04	16	
11	11 x 340	1	7.480000e+08	0.78	963.49	1001	3.342910972650109e+07	16	
12	12 x 304	1	7.296000e+08	0.76	963.94	1000	2.907141294167248e-05	16	
13	36 x 139	7	4.483584e+08	0.80	562.15	64	1.202533961842805e+11	15	
14	2 x 155	11	6.826820e+08	0.86	794.10	1001	3.165553044000335e+09	15	
15	1 x 266	33	8.778000e+08	1.00	878.32	101	3.943816690352044e+04	15	
16	25 x 387	10	1.025550e+09	0.70	1475.04	75	5.650760000000000e+05	16	
17	35 x 229	9	1.457127e+09	0.99	1469.69	101	1.114641772902486e+03	16	
18	2 x 193	44	1.681416e+09	0.88	1907.97	100	1.015727037502299e+05	15	
19	39 x 124	6	5.861232e+08	1.00	583.90	101	5.421816960147207e+02	16	
20	1 x 129	26	6.708000e+08	1.01	664.97	1000	3.040644339351239e+07	16	
21	1 x 52	2	1.313000e+09	0.73	1791.16	101	1.597308280710199e+08	15	
22	11 x 104	17	3.928496e+08	0.74	530.79	101	2.938604376566697e+02	16	
23	8 x 167	11	1.454904e+09	0.98	1488.29	100	3.549900501563623e+04	16	
24	5 x 737	1	7.370000e+08	0.96	765.76	1001	5.000000000000000e+02	16	

```
Maximum Rate 4006.14
Average Rate 1503.60
Geometric Mean 1260.31
Harmonic Mean 1053.88
Minimum Rate 391.63
```

```
Do Span 471
```

Calibrating part 2 of 3

```
Loop count      8  0.00 seconds
```

Loop count 32 0.00 seconds
 Loop count 128 0.00 seconds

Loops 200 x 2 x Passes

Kernel No	Passes	E	Floating Pt ops No Total	Secs.	MFLOPS	Span	Checksums	OK
1	40 x 290	5	2.343200e+09	1.00	2342.91	101	5.253344778937972e+02	16
2	40 x 327	4	2.030016e+09	1.00	2022.38	101	1.539721811668385e+03	15
3	53 x 429	2	1.837150e+09	0.98	1867.09	101	1.009741436578952e+00	16
4	70 x 521	2	1.750560e+09	1.00	1755.17	101	5.999250595473891e-01	16
5	55 x 96	2	4.224000e+08	1.00	424.16	101	4.589031939600982e+01	16
6	7 x 430	2	1.155840e+09	0.99	1164.92	32	8.631675645333210e+01	16
7	22 x 247	16	3.512538e+09	1.00	3509.88	101	6.345586315784055e+02	16
8	6 x 235	36	4.020192e+09	1.00	4017.03	100	1.501268005625795e+05	15
9	21 x 188	17	2.711486e+09	1.00	2715.97	101	1.189443609974981e+05	16
10	19 x 172	9	1.188245e+09	1.01	1179.53	101	7.310369784325296e+04	16
11	64 x 360	1	9.216000e+08	1.00	917.02	101	3.433560407475758e+04	16
12	68 x 330	1	8.976000e+08	0.99	902.61	100	7.127569130821465e-06	16
13	41 x 152	7	5.583872e+08	1.00	557.88	32	9.816387810944356e+10	15
14	10 x 230	11	1.022120e+09	1.01	1007.51	101	3.039983465145392e+07	15
15	1 x 134	33	8.844000e+08	1.01	879.74	101	3.943816690352044e+04	15
16	27 x 481	10	1.454544e+09	1.01	1439.40	40	6.480410000000000e+05	16
17	20 x 202	9	1.468944e+09	1.00	1470.31	101	1.114641772902486e+03	16
18	1 x 220	44	1.916640e+09	1.00	1908.02	100	1.015727037502299e+05	15
19	23 x 105	6	5.853960e+08	1.00	583.93	101	5.421816960147207e+02	16
20	8 x 81	26	6.739200e+08	1.01	667.94	100	3.126205178815431e+04	16
21	1 x 76	2	1.900000e+09	1.02	1864.49	50	7.824524877232093e+07	16
22	7 x 110	17	5.288360e+08	1.00	528.39	101	2.938604376566697e+02	16
23	5 x 137	11	1.491930e+09	1.00	1487.40	100	3.549900501563623e+04	16
24	31 x 561	1	6.956400e+08	1.01	690.30	101	5.000000000000000e+01	16

Maximum Rate 4017.03
 Average Rate 1496.00
 Geometric Mean 1253.39
 Harmonic Mean 1053.97
 Minimum Rate 424.16

Do Span 90

Calibrating part 3 of 3

Loop count 32 0.00 seconds
 Loop count 128 0.00 seconds
 Loop count 512 0.00 seconds

Loops 200 x 8 x Passes

Kernel No	Passes	E	Floating Pt ops No Total	Secs.	MFLOPS	Span	Checksums	OK
1	28 x 337	5	2.038176e+09	1.01	2023.60	27	3.855104502494961e+01	16
2	46 x 535	4	1.732544e+09	1.01	1715.24	15	3.953296986903059e+01	16
3	37 x 733	2	2.343254e+09	1.00	2332.39	27	2.699309089320672e-01	16
4	38 x 755	2	1.377120e+09	1.01	1366.05	27	5.999250595473891e-01	16
5	40 x 180	2	5.990400e+08	1.01	594.37	27	3.182615248447483e+00	16
6	21 x 632	2	1.019290e+09	1.01	1013.53	8	1.120309393467088e+00	15
7	20 x 307	16	3.300864e+09	0.94	3511.32	21	2.845720217644024e+01	16
8	9 x 285	36	3.841344e+09	0.99	3882.58	14	2.960543667875005e+03	15
9	26 x 258	17	2.736864e+09	1.00	2733.38	15	2.623968460874250e+03	16

10	25	x	216	9	1.166400e+09	1.00	1166.66	15	1.651291227698265e+03	16
11	46	x	514	1	9.835904e+08	1.01	977.32	27	6.551161335845770e+02	16
12	48	x	484	1	9.664512e+08	1.01	960.82	26	1.943435981130448e-06	16
13	31	x	202	7	5.610752e+08	1.00	559.85	8	3.847124199949431e+10	15
14	8	x	289	11	1.098662e+09	1.01	1088.71	27	2.923540598672009e+06	15
15	1	x	246	33	9.092160e+08	1.00	906.27	15	1.108997288134785e+03	16
16	14	x	552	10	1.360128e+09	0.93	1460.61	15	5.152160000000000e+05	16
17	26	x	282	9	1.583712e+09	0.98	1617.33	15	2.947368618589361e+01	16
18	2	x	201	44	1.839552e+09	1.01	1826.11	14	9.700646212337041e+02	16
19	28	x	147	6	5.927040e+08	1.01	586.91	15	1.268230698051003e+01	15
20	7	x	92	26	6.965504e+08	1.01	690.25	26	5.987713249475302e+02	16
21	1	x	46	2	1.840000e+09	1.01	1818.70	20	5.009945671204667e+07	16
22	8	x	158	17	5.157120e+08	1.00	515.68	15	6.109968728263972e+00	16
23	7	x	225	11	1.801800e+09	0.99	1811.30	14	4.850340602749970e+02	16
24	23	x	864	1	8.266752e+08	0.99	832.72	27	1.300000000000000e+01	16

Maximum Rate 3882.58
 Average Rate 1499.65
 Geometric Mean 1279.61
 Harmonic Mean 1101.44
 Minimum Rate 515.68

Do Span 19

Overall

Part 1 weight 1
 Part 2 weight 2
 Part 3 weight 1

Maximum Rate 4017.03
 Average Rate 1498.81
 Geometric Mean 1261.63
 Harmonic Mean 1065.43
 Minimum Rate 391.63

Do Span 167