

Reading Profile files in profile.*

NODE 0;CONTEXT 0;THREAD 0:

```
-----
%Time      Exclusive      Inclusive      #Call      #S
ubrs      Inclusive Name
          msec      total msec
          usec/call
-----
100.0          1          8,176          1
  7      8176112 int main(int, char **) C
87.2          17          7,131          1
2003      7131562 double powerMethod(double *, doub
le *, int, int) C
86.5          6,989          7,071      1000
4000          7072 void matVec(double *, double *, d
ouble *, int) C
12.6          1,026          1,026          1
  0      1026792 MPI_Init()
  0.6          45          45      1000
  0          45 MPI_Gather()
  0.5          41          41      1001
  0          42 double norm2(double *, int) C
  0.4          35          35      1000
  0          36 MPI_Bcast()
  0.2          12          12          1
  2      12734 void generatematrix(double *, int
) C
  0.0          3          3          1
  0      3186 MPI_Finalize()
  0.0          0.631          0.631      1003
  0          1 MPI_Comm_size()
  0.0          0.163          0.163      1003
  0          0 MPI_Comm_rank()
  0.0          0.004          0.004          1
  0          4 void generatevec(double *, int) C
-----
-----
```

USER EVENTS Profile :NODE 0, CONTEXT 0, THREAD 0

NumSamples	MaxValue	MinValue	MeanValue	Std. Dev.	Event Name
1000	2E+04	2E+04	2E+04		0 Message size for broadcast
1000	5000	5000	5000		0 Message size for gather

NODE 1;CONTEXT 0;THREAD 0:

%Time	Exclusive	Inclusive	#Call	#S	Inclusive Name
ubrs	msec	total msec			
	usec/call				
100.0	1	8,175	1		
7	8175072	int main(int, char **) C			
87.2	17	7,131	1		
2003	7131349	double powerMethod(double *, double *, int, int) C			
86.5	6,872	7,072	1000		
4000	7072	void matVec(double *, double *, double *, int) C			
12.5	1,025	1,025	1		
0	1025739	MPI_Init()			
1.8	143	143	1000		
0	143	MPI_Gather()			
0.7	55	55	1000		
0	55	MPI_Bcast()			
0.5	41	41	1001		
0	41	double norm2(double *, int) C			
0.2	12	12	1		
2	12988	void generatematrix(double *, int) C			

```

0.0          3          3          1
0          3055 MPI_Finalize()
0.0          0.437        0.437        1003
0          0 MPI_Comm_size()
0.0          0.187        0.187        1003
0          0 MPI_Comm_rank()
0.0          0.004        0.004          1
0          4 void generatevec(double *, int) C

```

```

-----
-----

```

USER EVENTS Profile :NODE 1, CONTEXT 0, THREAD 0

```

-----
-----

```

NumSamples	MaxValue	MinValue	MeanValue	Std. D
ev.	Event Name			

```

-----
-----

```

1000	2E+04	2E+04	2E+04	
0	Message size for broadcast			
0	0	0	0	0
0	Message size for gather			

```

-----
-----

```

NODE 2;CONTEXT 0;THREAD 0:

```

-----
-----

```

%Time	Exclusive	Inclusive	#Call	#S
ubrs	Inclusive Name			
	msec	total msec		
	usec/call			

```

-----
-----

```

100.0	1	8,171	1	
7	8171816	int main(int, char **) C		
87.3	17	7,131	1	
2003	7131136	double powerMethod(double *, double *, int, int) C		
86.5	6,894	7,071	1000	
4000	7072	void matVec(double *, double *, d		

```

double *, int) C
12.5      1,022      1,022      1
0      1022514 MPI_Init()
1.6      127      127      1000
0      127 MPI_Gather()
0.6      49      49      1000
0      49 MPI_Bcast()
0.5      41      41      1001
0      42 double norm2(double *, int) C
0.2      13      13      1
2      13203 void generatematrix(double *, int
) C
0.0      3      3      1
0      3338 MPI_Finalize()
0.0      0.236      0.236      1003
0      0 MPI_Comm_size()
0.0      0.182      0.182      1003
0      0 MPI_Comm_rank()
0.0      0.005      0.005      1
0      5 void generatevec(double *, int) C

```

```

-----
-----

```

USER EVENTS Profile :NODE 2, CONTEXT 0, THREAD 0

```

-----
-----

```

NumSamples	MaxValue	MinValue	MeanValue	Std. D
ev.	Event Name			

```

-----
-----

```

1000	2E+04	2E+04	2E+04	
0	Message size for broadcast			
0	0	0	0	0
0	Message size for gather			

```

-----
-----

```

NODE 3;CONTEXT 0;THREAD 0:

```

-----
-----

```

%Time	Exclusive	Inclusive	#Call	#S
-------	-----------	-----------	-------	----

ubrs	Inclusive Name	msec	total msec	usec/call
100.0	1	8,173	1	
7	8173505 int main(int, char **) C			
87.2	17	7,129	1	
2003	7129186 double powerMethod(double *, double *, int, int) C			
86.5	6,875	7,069	1000	
4000	7070 void matVec(double *, double *, double *, int) C			
12.5	1,025	1,025	1	
0	1025587 MPI_Init()			
1.9	156	156	1000	
0	156 MPI_Gather()			
0.5	41	41	1001	
0	42 double norm2(double *, int) C			
0.5	37	37	1000	
0	37 MPI_Bcast()			
0.2	13	13	1	
2	13538 void generatematrix(double *, int) C			
0.0	3	3	1	
0	3257 MPI_Finalize()			
0.0	0.464	0.464	1003	
0	0 MPI_Comm_size()			
0.0	0.217	0.217	1003	
0	0 MPI_Comm_rank()			
0.0	0.004	0.004	1	
0	4 void generatevec(double *, int) C			

USER EVENTS Profile :NODE 3, CONTEXT 0, THREAD 0

NumSamples	MaxValue	MinValue	MeanValue	Std. Dev.	Event Name
------------	----------	----------	-----------	-----------	------------

```

-----
      1000      2E+04      2E+04      2E+04
0  Message size for broadcast
      0      0      0      0
0  Message size for gather
-----
-----

```

FUNCTION SUMMARY (total):

```

-----
%Time      Exclusive      Inclusive      #Call      #S
ubrs      Inclusive Name
          msec      total msec
          usec/call
-----
-----
100.0          7          32,696          4
  28      8174126 int main(int, char **) C
87.2          70          28,523          4
8012      7130808 double powerMethod(double *, doub
le *, int, int) C
86.5          27,633          28,285          4000
16000          7071 void matVec(double *, double *, d
ouble *, int) C
12.5          4,100          4,100          4
  0      1025158 MPI_Init()
  1.4          472          472          4000
  0          118 MPI_Gather()
  0.5          177          177          4000
  0          44 MPI_Bcast()
  0.5          166          166          4004
  0          42 double norm2(double *, int) C
  0.2          52          52          4
  8      13116 void generatematrix(double *, int
) C
  0.0          12          12          4
  0      3209 MPI_Finalize()
  0.0          1          1          4012
  0          0 MPI_Comm_size()
  0.0          0.749          0.749          4012
  0          0 MPI_Comm_rank()

```

0.0	0.017	0.017	4
0	4	void generatevec(double *, int) C	

FUNCTION SUMMARY (mean):

%Time	Exclusive	Inclusive	#Call	#S
ubrs	Inclusive Name	msec total msec		
	usec/call			
100.0	1	8,174	1	
7	8174126	int main(int, char **) C		
87.2	17	7,130	1	
2003	7130808	double powerMethod(double *, double *, int, int) C		
86.5	6,908	7,071	1000	
4000	7071	void matVec(double *, double *, double *, int) C		
12.5	1,025	1,025	1	
0	1025158	MPI_Init()		
1.4	118	118	1000	
0	118	MPI_Gather()		
0.5	44	44	1000	
0	44	MPI_Bcast()		
0.5	41	41	1001	
0	42	double norm2(double *, int) C		
0.2	13	13	1	
2	13116	void generatematrix(double *, int) C		
0.0	3	3	1	
0	3209	MPI_Finalize()		
0.0	0.442	0.442	1003	
0	0	MPI_Comm_size()		
0.0	0.187	0.187	1003	
0	0	MPI_Comm_rank()		
0.0	0.00425	0.00425	1	
0	4	void generatevec(double *, int) C		