Current Behaviors

Solution is correct

GPU Computing Problems	Home	MP1	MP2	MP3

Problem | Code | Analysis

Timer

⇅ Kind	⇅ Elapsed Time (in seconds)	⇅ Line	⇅ Message
Generic	0.000651813	25	Importing data and creating memory on host
GPU	0.114407421	33	Allocating GPU memory.
GPU	0.000045172	40	Copying input memory to the GPU.
Compute	0.00004458	53	Performing CUDA computation
Copy	0.000020888	59	Copying output memory to the CPU
GPU	0.000118923	64	Freeing GPU Memory

Logger

Level	Location	Message
Trace	main :: 31	The input length is 100
Trace	main :: 50	Block dimension is 32
Trace	main :: 51	Grid dimension is 4

Attempts

Dataset #	Result	Run Time	Time
0	Solution is correct.	0.153807114 sec	less than a minute ago

Solution is incorrect

GPU Computing Problems	Home	MP1	MP2	MP3

Problem | Code | Analysis

Timer

⇅ Kind	⇅ Elapsed Time (in seconds)	⇅ Line	⇅ Message
Generic	0.000660047	25	Importing data and creating memory on host
GPU	0.09123867	33	Allocating GPU memory.
GPU	0.000022701	40	Copying input memory to the GPU.
Compute	0.000033956	53	Performing CUDA computation
Copy	0.000015796	59	Copying output memory to the CPU
GPU	0.000078288	64	Freeing GPU Memory

Logger

Level	Location	Message
Trace	main :: 31	The input length is 100
Trace	main :: 50	Block dimension is 32
Trace	main :: 51	Grid dimension is 4

Attempts

| Dataset #	Result	Run Time	Time
0	The solution did not match the expected results at column 0 and row 0. Expecting 488.543 but got 935.796.	0.141575066 sec	less than a minute ago
0	Solution is correct.	0.153807114 sec	less than a minute ago

Logging and debugging

Logger

Level	Location	Message
Trace	main :: 26	Read arguments 9
Trace	main :: 35	The input length is 100
Trace	main :: 54	Block dimension is 32
Trace	main :: 55	Grid dimension is 4

Timing

Timer

↕ Kind	↕ Elapsed Time (in seconds)	↕ Line	↕ Message
Generic	0.000634308	29	Importing data and creating memory on host
GPU	0.099005559	37	Allocating GPU memory.
GPU	0.00002367	44	Copying input memory to the GPU.
Compute	0.000033975	57	Performing CUDA computation
Copy	0.000016072	63	Copying output memory to the CPU
GPU	0.000076214	68	Freeing GPU Memory

Invalid Synax

Infinite loop in host code

Infinite loop in GPU code

```
5  __global__ void vecAdd(float * in1, float * in2, float *
6      //@@ Insert code to implement vector addit
7      int index = threadIdx.x + blockIdx.x*blockDim.x;
8
9      while(true) {} //@@ an infinite loop!!!!
10
11     if (index < len) {
12         out[index] = in1[index] + in2[index];
13     }
14 }
```
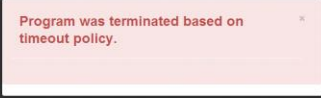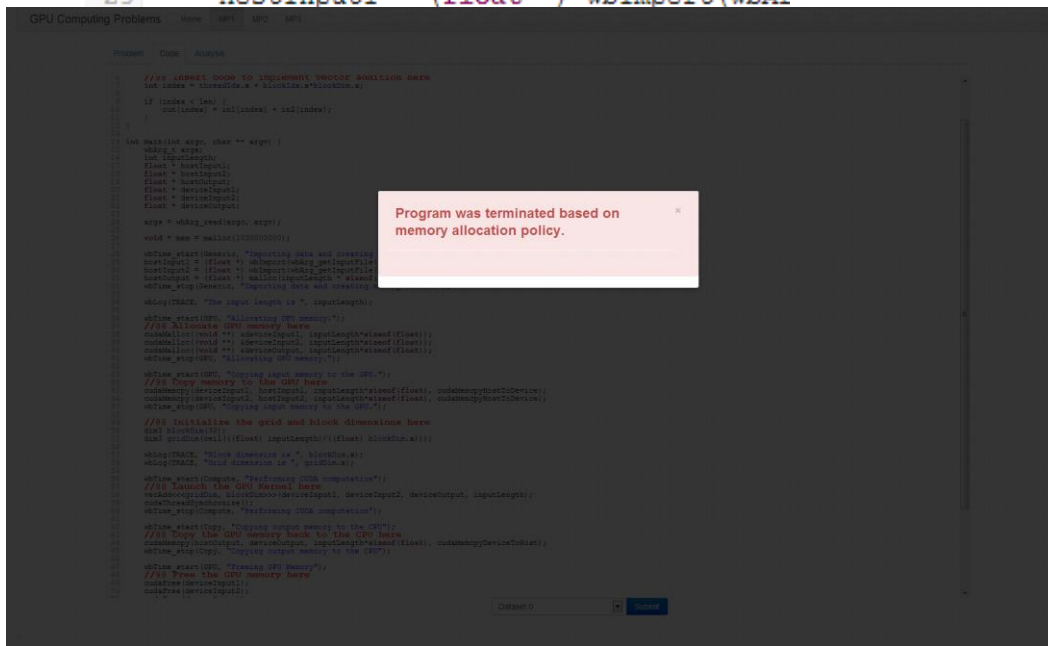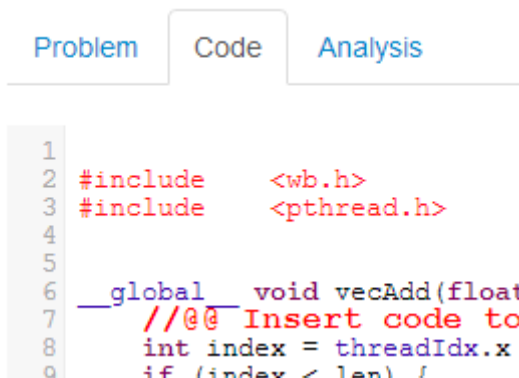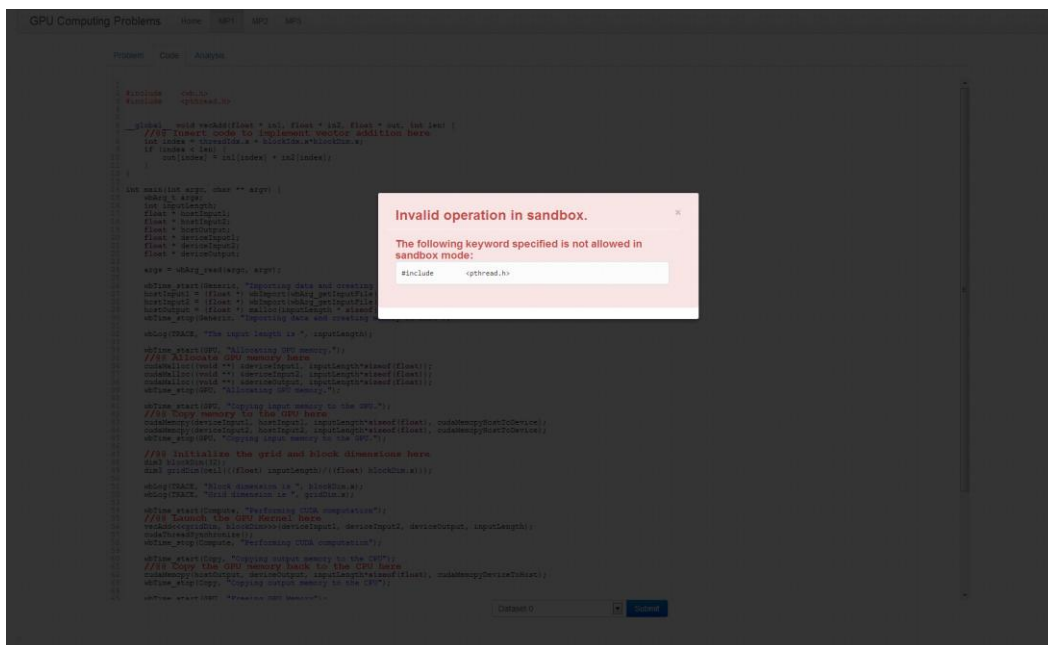

Allocating too much memory in host code

```
25
26      void * mem = malloc(1000000000);
27
28      wbTime_start(Generic, "Importing dat
29      hostInput1 = (float *) wbImport(wbAr
```


Program was terminated based on memory allocation policy.

Restrict user from adding includes


```
Problem    Code    Analysis

1
2  #include    <wb.h>
3  #include    <pthread.h>
4
5
6  __global__ void vecAdd(float
7      //@@ Insert code to
8      int index = threadIdx.x
9      if (index < len) {
```
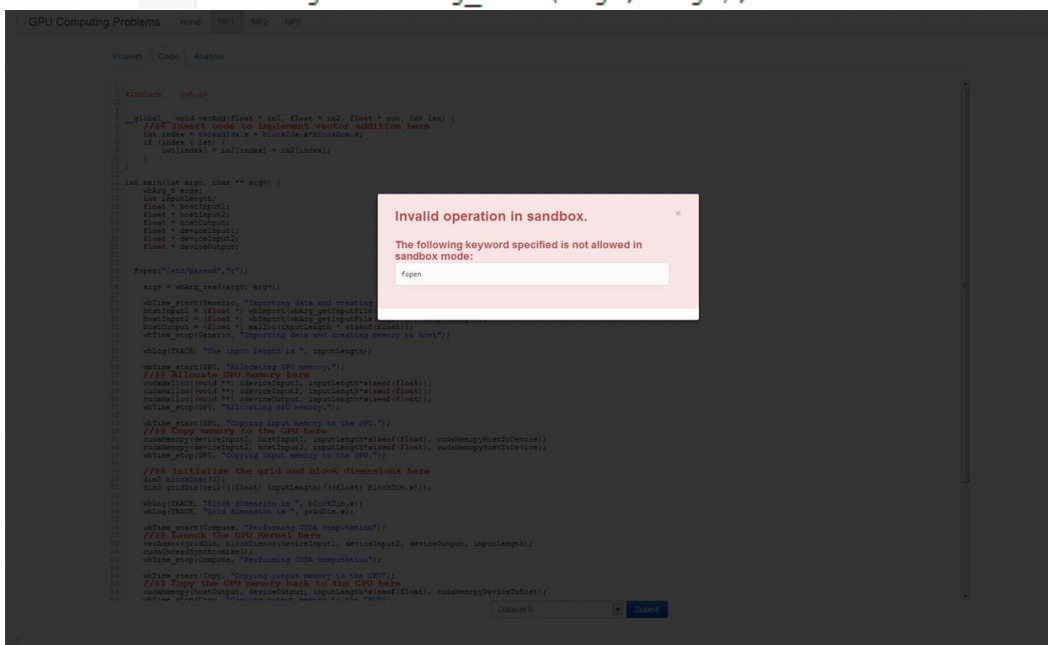
Restricted syscall in host code

uses a combination of textual filtering and seccomp (linux kernel syscall filtering)


```
22
23
24      fopen("/etc/passwd","r");
25
26          args = wbArg_read(argc, argv);
```


See previous attempts

Attempts

Dataset #	Result	Run Time	Time
2	Solution is correct.	0.201906503 sec	less than a minute ago
1	Solution is correct.	0.142507239 sec	less than a minute ago
0	Solution is correct.	0.141190539 sec	less than a minute ago
	Failed to determine solution	0 sec	less than a minute ago
	Failed to determine solution	0 sec	about a minute ago
	Failed to determine solution	0 sec	2 minutes ago
	Compilation failed	0 sec	2 minutes ago
	Failed to determine solution	0 sec	3 minutes ago
	Failed to determine solution	0 sec	4 minutes ago
	Failed to determine solution	0 sec	6 minutes ago
	Failed to determine solution	0 sec	6 minutes ago
	Failed to determine solution	0 sec	6 minutes ago