CPU\_Plugin Generator Tool

Model Integrated Computing

ECE-505

Presented by: Nishanth Prakash

University of Arizona

Tucson, AZ, USA

Table of Contents

[Entire Model: The overview of the Interpreter 3](#_Toc405990650)

[1st Example: UserProcessCounter 4](#_Toc405990651)

[2nd Example: MemoryLoad 5](#_Toc405990652)

[3rd Example: Shared\_Folders 6](#_Toc405990653)

Table of Figures

[Figure 1: CPU\_Plugin Generator 3](#_Toc405990654)

[Figure 2: Model consisting of userProcessCounter 4](#_Toc405990655)

[Figure 3: Results after executing the code 4](#_Toc405990656)

[Figure 4: Model consisting of MemoryLoad 5](#_Toc405990657)

[Figure 5: Results after executing the code 5](#_Toc405990658)

[Figure 6: Model consisting of Shared\_Folders 6](#_Toc405990659)

[Figure 7: Results after executing the code 6](#_Toc405990660)

In this documentation, I would be showing 3 different models that can be formed using CPU\_Plugin Generator tool.

# Entire Model: The overview of the Interpreter

Figure 1 shows the entire CPU\_Plugin Generator interpreter.

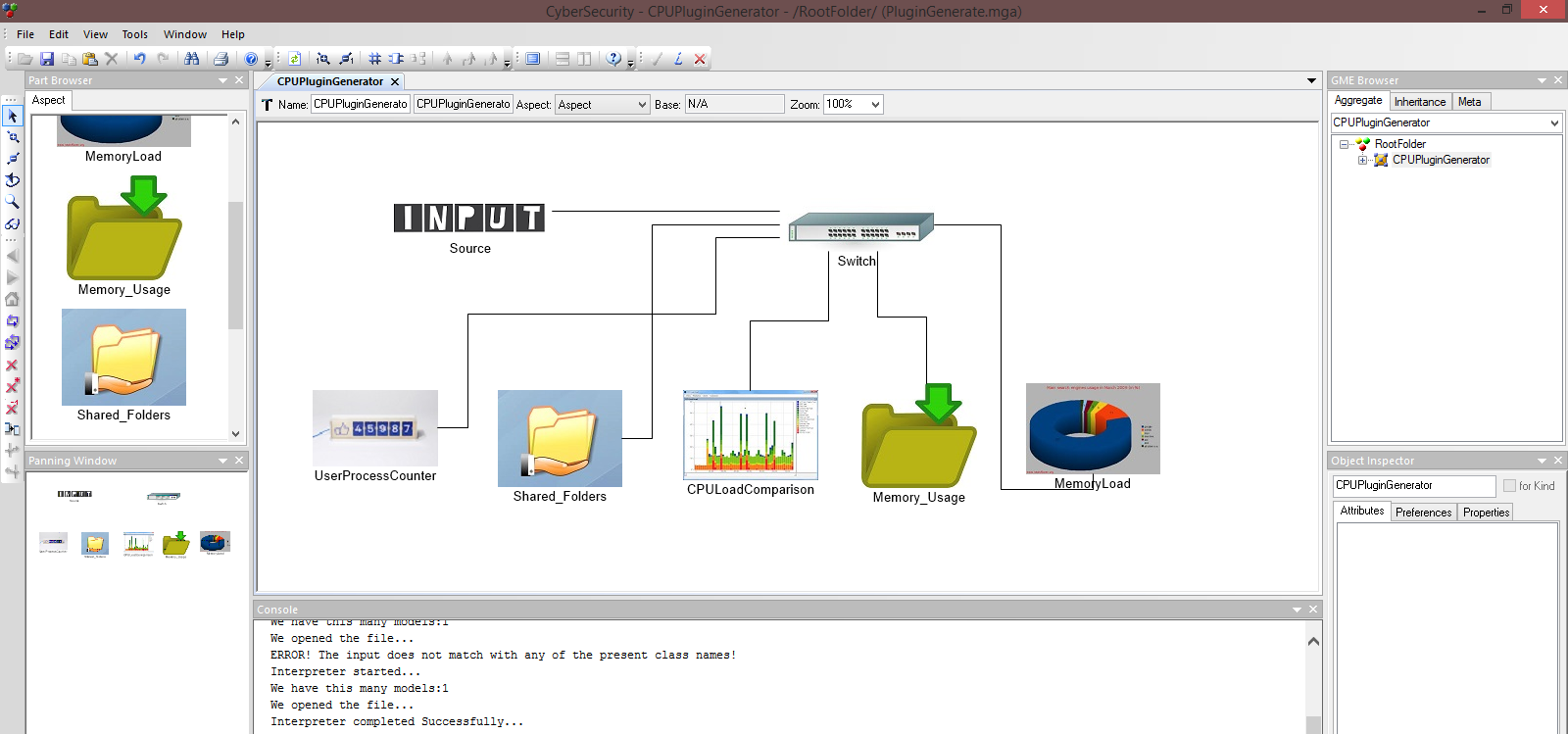


Figure 1: CPU\_Plugin Generator

# 1st Example: UserProcessCounter

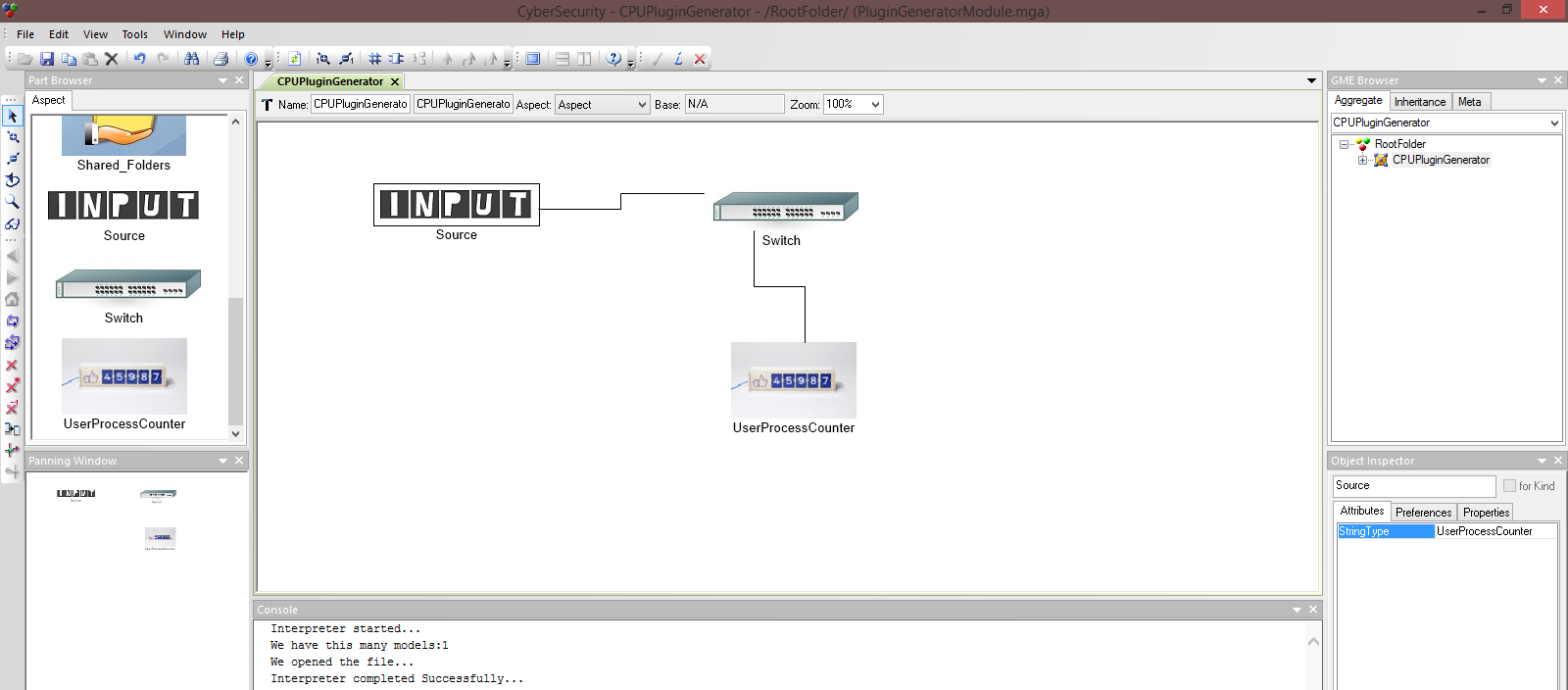


Figure 2: Model consisting of userProcessCounter

Figure 2. Consists of a model containing User Open Processes. This will count the current number of open processes in the main memory of the computer.

Output: The output generated by the CPU\_Plugin Generator interpreter tool is a class called check\_user\_open\_processes as shown below.



When you run the above code using the Nagios tool, you would get the results as shown in Figure 3.

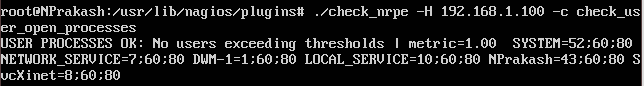


Figure 3: Results after executing the code

# 2nd Example: MemoryLoad

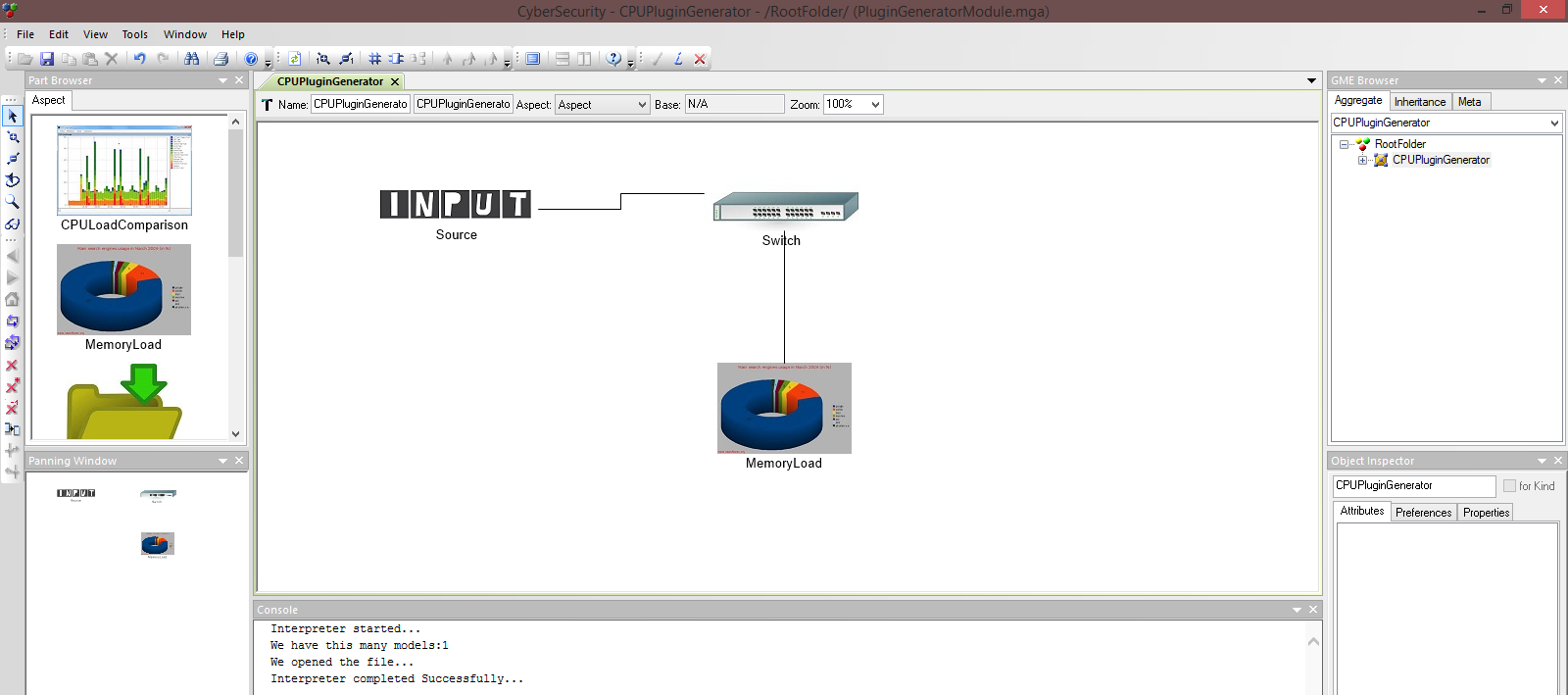


Figure 4: Model consisting of MemoryLoad

Figure 4. Consists of a model containing MemoryLoad. This will count the current number of open processes in the main memory of the computer.

Output: The output generated by the CPU\_Plugin Generator interpreter tool is a class called check\_hardware\_memory\_load as shown below.



When you run the above code by using the Nagios tool, you would get the results as shown in Figure 5.

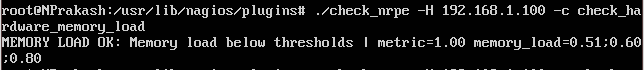


Figure 5: Results after executing the code

# 3rd Example: Shared\_Folders

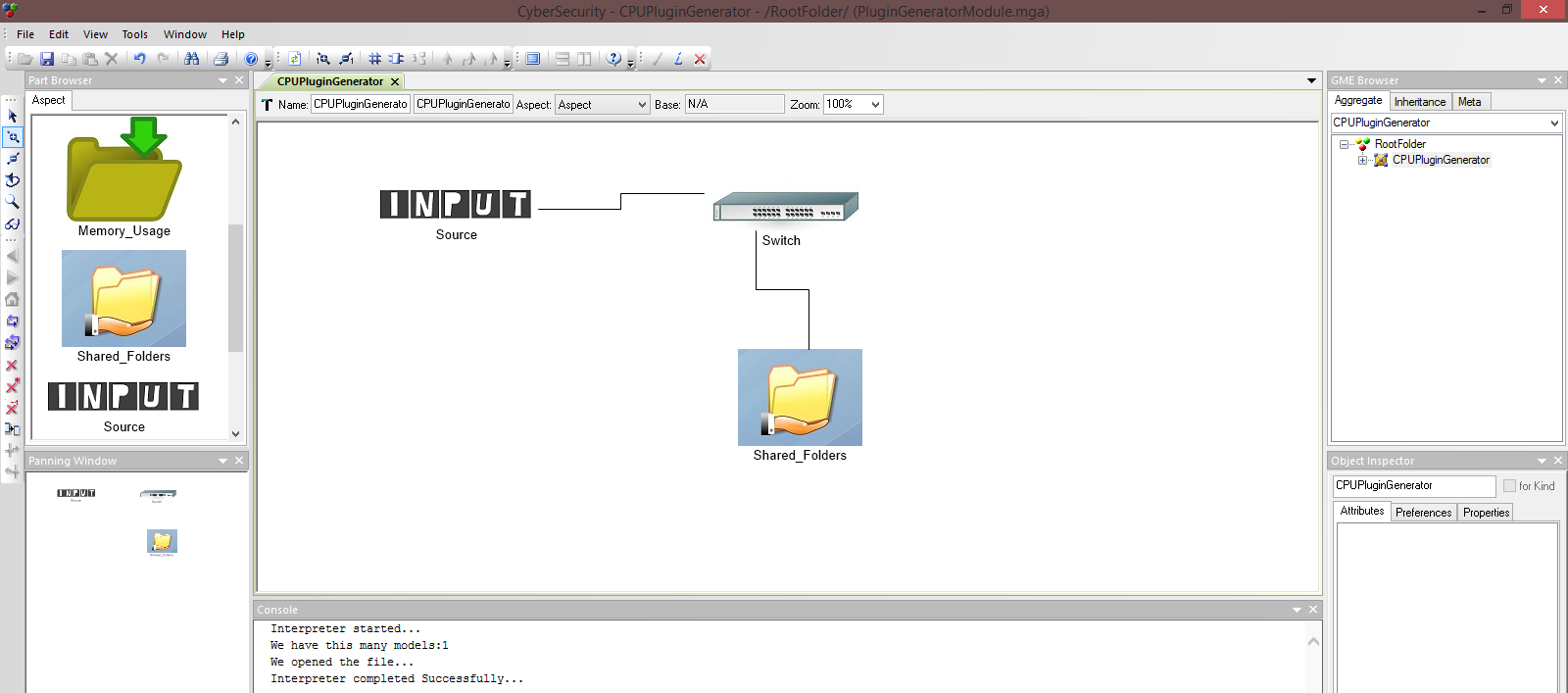


Figure 6: Model consisting of Shared\_Folders

Figure 6. Consists of a model containing Shared\_Folders. This will count the current number of shared folders of the computer.

Output: The output generated by the CPU\_Plugin Generator interpreter tool is a class called check\_machine\_shared\_folders as shown below.



When you run the above code using the Nagios tool, you would get the results as shown in Figure 7.

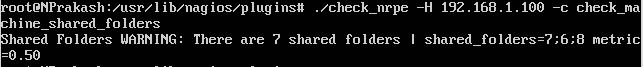


Figure 7: Results after executing the code