## "Faci quod potui, faciant meliora potents!"

## Calculator is the arbitrary (shell)code for MS08-078 example module.



[Click on "Launch" for the correspondent HTML Element and DSO.]

Permutation Oriented Programming ©2004-2011 Nelson Brito. All rights reserved worldwide.

Please, find below some explanations about:

- 1. How the MS08-078 demonstration applying Permutation Oriented Programming works;
- 2. How you might perform the tests based on each example; and
- 3. How you might interpret the results of each example.

The exploitation elements are:

- 1. XML Data Island:
  - a. HTML **<XML>** Element is present.
- 2. XML Data Source Object Reference:
  - a. HTML **<XML>** Element is present and holds the DSO;
  - b. CDATA (Unparsed Character Data) is present; and
  - c. HTML <IMG SRC="..."> Element is present.
- 3. Data Consumer:
  - a. HTML **<SPAN>** Element is present and repeated.

Note: It is in compliance with the CVE description for the vulnerability MS08-078, so any IDS/IPS should detect and prevent this attack exploitation alternative. For further details, please, refer to: CVE-2008-4844.

1

The following scenario and environment is strictly recommended to perform demonstrations and/or tests:

- 1. Extract the contents of "MS08-078\_XML\_Island\_Bypass.zip" into your WEB Server root directory.
- 2. Map your WEB Server to use "index.html".
- 3. Place your IDS/IPS at the network segment you will use to access the WEB Server.
- 4. Browse the WEB Server and choose one of the options.

