

注：以下操作对 win7 win8 win10 系统都使用

## 1、通过注册表

在HKLM\SYSTEM\CurrentControlSet\Control\Session Manager下新建一个名称为Debug Print Filter的key；在Debug Print Filter下新建一个项：Default,值为0xF. 设置完成后需要重启系统。

写成可导入的REG文件如下：

```
1 Windows Registry Editor Version 5.00
2
3 [HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session
4   Manager\Debug Print Filter]
5     "DEFAULT"=dword:0000000f
```

## 2、使用windbg调试内核

执行如下命令，即可显示DbgPrint输出

```
1 ed nt!Kd_DPFLTR_MASK 0xf
```

## 3、通过应用程序打开

通过调用 SetDbgPrintFiltering 函数，来修改nt!Kd\_DPFLTR\_MASK变量

ekdprint 就是配置各种DPFLTR\_TYPE 为不同LEVEL 的应用程序。

[下载ekdprint](#)

### 打开DbgPrint输出

在cmd下执行，如下命令

```
1 ekdprint.exe 101 0xf
```

或者直接双击运行，默认参数就这样。

### 关闭DbgPrint输出

```
1 ekdprint.exe 101 0
```

### ekdprint使用帮助

```
1 c:\test> ekdprint.exe -h
2 ekdprint v1.0
3 Copyright (C) 2014-2017 ranfs.com
4 usage: ekdprint [ComponentId] [mask]
5 example: ekdprint 101 0x0f
6 Notice: No parameters, default Enable DbgPrint output
```

返回值：成功执行错误代码0，错误为1。注：本程序需要管理员权限。

## ComponentId 参考

```
1 typedef enum _DPFLTR_TYPE {
2     DPFLTR_SYSTEM_ID = 0,
3     DPFLTR_SMSS_ID = 1,
4     DPFLTR_SETUP_ID = 2,
5     DPFLTR_NTFS_ID = 3,
6     DPFLTR_FSTUB_ID = 4,
7     DPFLTR_CRASHDUMP_ID = 5,
8     DPFLTR_CDAUDIO_ID = 6,
9     DPFLTR_CDROM_ID = 7,
10    DPFLTR_CLASSPNP_ID = 8,
11    DPFLTR_DISK_ID = 9,
12    DPFLTR_REDBOOK_ID = 10,
13    DPFLTR_STORPROP_ID = 11,
14    DPFLTR_SCSIPORT_ID = 12,
15    DPFLTR_SCSIMINIPOINT_ID = 13,
16    DPFLTR_CONFIG_ID = 14,
17    DPFLTR_I8042PRT_ID = 15,
18    DPFLTR_SERMOUSE_ID = 16,
19    DPFLTR_LSERMOUS_ID = 17,
20    DPFLTR_KBDHID_ID = 18,
21    DPFLTR_MOUHID_ID = 19,
22    DPFLTR_KBDCLASS_ID = 20,
23    DPFLTR_MOUSECLASS_ID = 21,
24    DPFLTR_TWOTRACK_ID = 22,
25    DPFLTR_WMILIB_ID = 23,
26    DPFLTR_ACPI_ID = 24,
27    DPFLTR_AMLI_ID = 25,
28    DPFLTR_HALIA64_ID = 26,
29    DPFLTR_VIDEO_ID = 27,
30    DPFLTR_SVCHOST_ID = 28,
31    DPFLTR_VIDEOPT_ID = 29,
32    DPFLTR_TCPIP_ID = 30,
33    DPFLTR_DMSYNTH_ID = 31,
34    DPFLTR_NTOSPNP_ID = 32,
35    DPFLTR_FASTFAT_ID = 33,
36    DPFLTR_SAMSS_ID = 34,
37    DPFLTR_PNPMGR_ID = 35,
```

```
38 DPFLTR_NETAPI_ID = 36,
39 DPFLTR_SCSERVER_ID = 37,
40 DPFLTR_SCCLIENT_ID = 38,
41 DPFLTR_SERIAL_ID = 39,
42 DPFLTR_SERENUM_ID = 40,
43 DPFLTR_UHCD_ID = 41,
44 DPFLTR_RPCPROXY_ID = 42,
45 DPFLTR_AUTOCHK_ID = 43,
46 DPFLTR_DCOMSS_ID = 44,
47 DPFLTR_UNIMODEM_ID = 45,
48 DPFLTR_SIS_ID = 46,
49 DPFLTR_FLTMGR_ID = 47,
50 DPFLTR_WMICORE_ID = 48,
51 DPFLTR_BURNENG_ID = 49,
52 DPFLTR_IMAPI_ID = 50,
53 DPFLTR_SXS_ID = 51,
54 DPFLTR_FUSION_ID = 52,
55 DPFLTR_IDLETASK_ID = 53,
56 DPFLTR_SOFTPCI_ID = 54,
57 DPFLTR_TAPE_ID = 55,
58 DPFLTR_MCHGR_ID = 56,
59 DPFLTR_IDEP_ID = 57,
60 DPFLTR_PCIIDE_ID = 58,
61 DPFLTR_FLOPPY_ID = 59,
62 DPFLTR_FDC_ID = 60,
63 DPFLTR_TERMSRV_ID = 61,
64 DPFLTR_W32TIME_ID = 62,
65 DPFLTR_PREFETCHER_ID = 63,
66 DPFLTR_RSFILTER_ID = 64,
67 DPFLTR_FCPORT_ID = 65,
68 DPFLTR_PCI_ID = 66,
69 DPFLTR_DMIO_ID = 67,
70 DPFLTR_DMCONFIG_ID = 68,
71 DPFLTR_DMADMIN_ID = 69,
72 DPFLTR_WSOCKTRANSPORT_ID = 70,
73 DPFLTR_VSS_ID = 71,
74 DPFLTR_PNPMEM_ID = 72,
75 DPFLTR_PROCESSOR_ID = 73,
76 DPFLTR_DMSERVER_ID = 74,
77 DPFLTR_SR_ID = 75,
78 DPFLTR_INFINIBAND_ID = 76,
79 DPFLTR_IHVDRIIVER_ID = 77,
80 DPFLTR_IHVVIDEO_ID = 78,
81 DPFLTR_IHVAUDIO_ID = 79,
82 DPFLTR_IHVNETWORK_ID = 80,
83 DPFLTR_IHVSTREAMING_ID = 81,
84 DPFLTR_IHVBUS_ID = 82,
85 DPFLTR_HPS_ID = 83,
86 DPFLTR_RTLTHREADPOOL_ID = 84,
```

```
87 DPFLTR_LDR_ID = 85,
88 DPFLTR_TCPIP6_ID = 86,
89 DPFLTR_ISAPNP_ID = 87,
90 DPFLTR_SHPC_ID = 88,
91 DPFLTR_STORPORT_ID = 89,
92 DPFLTR_STORMINIPOINT_ID = 90,
93 DPFLTR_PRINTSPOOLER_ID = 91,
94 DPFLTR_VSSDYNDISK_ID = 92,
95 DPFLTR_VERIFIER_ID = 93,
96 DPFLTR_VDS_ID = 94,
97 DPFLTR_VDSBAS_ID = 95,
98 DPFLTR_VDSYN_ID = 96,
99 DPFLTR_VDSYNDNR_ID = 97,
100 DPFLTR_VDSLDR_ID = 98,
101 DPFLTR_VDSUTIL_ID = 99,
102 DPFLTR_DFRGIFC_ID = 100,
103 DPFLTR_DEFAULT_ID = 101,
104 DPFLTR_MM_ID = 102,
105 DPFLTR_DFSC_ID = 103,
106 DPFLTR_WOW64_ID = 104,
107 DPFLTR_ALPC_ID = 105,
108 DPFLTR_WDI_ID = 106,
109 DPFLTR_PERFLIB_ID = 107,
110 DPFLTR_KTM_ID = 108,
111 DPFLTR_IOSTRESS_ID = 109,
112 DPFLTR_HEAP_ID = 110,
113 DPFLTR_WHEA_ID = 111,
114 DPFLTR_USERGDI_ID = 112,
115 DPFLTR_MMCS_ID = 113,
116 DPFLTR_TPM_ID = 114,
117 DPFLTR_THREADORDER_ID = 115,
118 DPFLTR_ENVIRON_ID = 116,
119 DPFLTR_EMS_ID = 117,
120 DPFLTR_WDT_ID = 118,
121 DPFLTR_FVEVOL_ID = 119,
122 DPFLTR_NDIS_ID = 120,
123 DPFLTR_NVCTRACE_ID = 121,
124 DPFLTR_LUAFV_ID = 122,
125 DPFLTR_APPCOMPAT_ID = 123,
126 DPFLTR_USBSTOR_ID = 124,
127 DPFLTR_SBP2PORT_ID = 125,
128 DPFLTR_COVERAGE_ID = 126,
129 DPFLTR_CACHEMGR_ID = 127,
130 DPFLTR_MOUNTMGR_ID = 128,
131 DPFLTR_CFR_ID = 129,
132 DPFLTR_TXF_ID = 130,
133 DPFLTR_KSECDD_ID = 131,
134 DPFLTR_FLTREGRESS_ID = 132,
135 DPFLTR_MPIO_ID = 133,
```

```
136     DPFLTR_MSDSM_ID = 134,  
137     DPFLTR_UDFS_ID = 135,  
138     DPFLTR_PSHED_ID = 136,  
139     DPFLTR_STORVSP_ID = 137,  
140     DPFLTR_LSASS_ID = 138,  
141     DPFLTR_SSPLICLI_ID = 139,  
142     DPFLTR_CNG_ID = 140,  
143     DPFLTR_EXFAT_ID = 141,  
144     DPFLTR_FILETRACE_ID = 142,  
145     DPFLTR_XSAVE_ID = 143,  
146     DPFLTR_SE_ID = 144,  
147     DPFLTR_DRIVEEXTENDER_ID = 145,  
148     DPFLTR_ENDOFTABLE_ID  
149 } DPFLTR_TYPE;
```

## level 参考

```
1 #define DPFLTR_ERROR_LEVEL 0  
2 #define DPFLTR_WARNING_LEVEL 1  
3 #define DPFLTR_TRACE_LEVEL 2  
4 #define DPFLTR_INFO_LEVEL 3
```