

黑苹果必备：Intel核显platform ID整理及smbios速查表

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本文的由来

经常有网友进群问某某机型需要注入哪个 `platform-id` 才能正确地驱动显卡，每到这个时候，我都需要翻出 `Clover` 自带的 `src ▶ edk2 ▶ Clover ▶ rEFIt_UEFI ▶ Platform ▶ gma.c` 查找显卡参数。于是我就想把它整理出来方便大家查询，`markdown` 的表格排版对我来说是一种考验，但更像是一种折磨。还好还好，它没花费我太长的时间。

smbios速查表

SMBIOS ID	CPU Family	GPUs (S = Switchable)	Year and size
MacBook1,1	Yonah	GMA 950	13" 2006
MacBook2,1	Merom	GMA 950	13" 2006/07"
MacBook3,1	Merom	GMA X3100	13" 2007
MacBook4,1	Penryn	GMA X3100	13" 2008
MacBook4,2	Penryn	GMA X3100	13" 2008
MacBook5,1	Penryn	GeForce 9400M	13" 2008
MacBook5,2	Penryn	GeForce 9400M	13" 2009
MacBook6,1	Penryn	GeForce 9400M	13" 2009



MacBook7,1	Penryn	GeForce 320M	13" 2010
MacBook8,1	Broadwell m	HD 5300	12" 2015
MacBook9,1	Skylake m	HD 515	12" 2016
MacBook10,1	Kaby Lake m	HD 615	12" 2017
—	—	—	—
MacBookAir1,1	Merom	GMA X3100	13" 2008
MacBookAir2,1	Penryn	GeForce 9400M	13" 2008/09"
MacBookAir3,1	Penryn	GeForce 320M	11" 2010
MacBookAir3,2	Penryn	GeForce 320M	13" 2010
MacBookAir4,1	Sandy Bridge	HD 3000	11" 2011
MacBookAir4,2	Sandy Bridge	HD 3000	13" 2011
MacBookAir5,1	Ivy Bridge	HD 4000	11" 2012
MacBookAir5,2	Ivy Bridge	HD 4000	13" 2012
MacBookAir6,1	Haswell	HD 5000	11" 2013
MacBookAir6,2	Haswell	HD 5000	13" 2013
MacBookAir7,1	Broadwell	HD 6000	11" 2015
MacBookAir7,2	Broadwell	HD 6000	13" 2015
—	—	—	—
MacBookPro1,1	Yonah	Radeon X1600	15" 2006
MacBookPro1,2	Yonah	Radeon X1600	17" 2006
MacBookPro2,1	Merom	Radeon X1600	15" 2006
MacBookPro2,2	Merom	Radeon X1600	17" 2006

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MacBookPro3,1	Merom	GeForce 8600M GT	15"/17" 2007
MacBookPro4,1	Penryn	GeForce 8600MG GT	17" 2008
MacBookPro5,1	Penryn	GeForce 9400M/9600M GT	S, 15" 2008/09"
MacBookPro5,2	Penryn	GeForce 9400M/9600M GT	S, 17" 2009
MacBookPro5,3	Penryn	GeForce 9400M/9600M GT	S, 15" 2009
MacBookPro5,4	Penryn	GeForce 9400M/9600M GT	S, 15" 2009
MacBookPro5,5	Penryn	GeForce 9400M/9600M GT	S, 13" 2009
MacBookPro7,1	Penryn	GeForce 320M	13" 2010
MacBookPro6,1	Arrandale	HD Graphics/GeForce GT 330M	S, 17" 2010
MacBookPro6,2	Arrandale	HD Graphics/GeForce GT 330M	S, 15" 2010
MacBookPro8,1	Sandy Bridge	HD 3000	13" 2011
MacBookPro8,2	Sandy Bridge	HD 3000/Radeon HD 6490M	S, 15" 2011
MacBookPro8,3	Sandy Bridge	HD 3000/Radeon HD 6750M	S, 17" 2011
MacBookPro9,1	Ivy Bridge	HD 4000/GeForce GT 650M	S, 15" 2012
MacBookPro9,2	Ivy Bridge	HD 4000	13" 2012
MacBookPro10,1	Ivy Bridge	HD 4000/GeForce GT 650M	S, 15" 2012/13"
MacBookPro10,2	Ivy Bridge	HD 4000	13" 2012/13"
MacBookPro11,1	Haswell	Iris 5100	13" 2013/14"
MacBookPro11,2	Haswell	Iris Pro 5200	15" 2013/14"
MacBookPro11,3	Haswell	Iris Pro 5200/GeForce GT 750M	S, 15" 2013/14"
MacBookPro11,4	Haswell	Iris Pro 5200	15" 2015

MacBookPro11,5	Haswell	Iris Pro 5200/Radeon R9 M370X	S, 15" 2015
MacBookPro12,1	Broadwell	Iris 6100	13" 2015
MacBookPro13,1	Skylake	Iris 540	13" 2016
MacBookPro13,2	Skylake	Iris 550	13" 2016
MacBookPro13,3	Skylake	HD 530/Radeon Pro 450	S, 15" 2016
MacBookPro14,1	Kaby Lake	Iris Plus 640	13" 2017
MacBookPro14,2	Kaby Lake	Iris Plus 650	13" 2017
MacBookPro14,3	Kaby Lake	HDs 630/Radeon Pro 555	S, 15" 2017
MacBookPro15,1	Coffee Lake	Intel UHD Graphics 630	2018
MacBookPro15,2	Coffee Lake	Intel Iris Plus Graphics 655	2018
—	—	—	—
iMac4,1	Yonah	Radeon X1600	17"/20" 2006
iMac4,2	Yonah	GMA 950	17" 2006
iMac5,1	Merom	Radeon X1600	17"/20" 2006
iMac5,2	Merom	GMA 950	17" 2006
iMac6,1	Merom	GeForce 7300GT	24" 2006
iMac7,1	Merom	Radeon HD 2400 XT	20"/24" 2007
iMac8,1	Penryn	Radeon HD 2400 XT	20"/24" 2008
iMac9,1	Penryn	GeForce 9400M	20"/24" 2009
iMac10,1	Wolfdale	GeForce 9400M	21.5"/27" 2009
iMac10,1	Wolfdale	Radeon HD 4670	21.5"/27" 2009
iMac11,1	Lynnfield	Radeon HD 4850	27" 2009

iMac11,2	Clarkdale	Radeon HD 4670	21.5" 2010
iMac11,3	Clarkdale	Radeon HD 5670	27" 2010
iMac12,1	Sandy Bridge	Radeon HD 6750M	21.5" 2011
iMac12,2	Sandy Bridge	Radeon HD 6770M	27" 2011
iMac13,1	Ivy Bridge	GeForce GT 640M	21.5" 2012
iMac13,2	Ivy Bridge	GeForce GTX 660M	27" 2012
iMac13,1	Ivy Bridge	HD 4000	21.5" 2013
iMac14,1	Haswell	Iris Pro 5200	21.5" 2013
iMac14,1	Haswell	GeForce GT 750M	21.5" 2013
iMac14,2	Haswell	GeForce GT 755M	27" 2013
iMac14,4	Haswell	HD 5000	21.5" 2014
iMac15,1	Haswell	Radeon R9 M290X	27" 2014/15"
iMac16,1	Broadwell	HD 6000 or Iris Pro 6200	21.5" 2015
iMac16,2	Broadwell	Iris Pro 6200	21.5" 2015
iMac17,1	Skylake	Radeon R9 M380	27" 2015
iMac18,1	Kaby Lake	Iris Plus 640	21.5" 2017
iMac18,2	Kaby Lake	Radeon Pro 555	21.5" 2017
iMac18,3	Kaby Lake	Radeon Pro 570	27" 2017
iMac19,1		Radeon Pro 580	2017
—	—	—	—
iMacPro1,1		双 AMD FirePro D700	2017

—	—	—	—
Macmini1,1	Yonah	GMA 950	2006
Macmini2,1	Merom	GMA 950	2007
Macmini3,1	Penryn	GeForce 9400M	2009
Macmini4,1	Penryn	GeForce 320M	2010
Macmini5,1	Sandy Bridge	HD 3000	2011
Macmini5,2	Sandy Bridge	Radeon HD 6630M	2011
Macmini5,3	Sandy Bridge	HD 3000	2011
Macmini6,1	Ivy Bridge	HD 4000	2012
Macmini6,2	Ivy Bridge	HD 4000	2012
Macmini7,1	Haswell	HD 5000 or Iris 5100	2014
Macmini8,1	Coffee Lake	UHD Graphics 630	2018
—	—	—	—
MacPro1,1	Woodcrest	GeForce 7300 GT	2006
MacPro2,1	Clovertown	GeForce 7300 GT	2006
MacPro3,1	Harpertown	Radeon HD 2600 XT	2008
MacPro4,1	Nehalem	GeForce GT 120	2009
MacPro5,1	Nehalem	Radeon HD 5770	2010
MacPro5,1	Westmere	Radeon HD 5770	2012
MacPro6,1	Ivy BridgeEP	FirePro D300	2013
—	—	—	—
Xserve1,1	Woodcrest	Radeon X1300	2006

Xserve2,1	Harpertown	Radeon X1300	2008
Xserve3,1	Nehalem	GeForce GT 120	2009

INTEL核显平台

sandy bridge平台

[BL:0x0710]

显卡型号	platform-id	机型	接口	LVDS	DP	HDMI
Intel HD Graphics 3000	0x00010000	MacBookPro8,1 MacBookPro8,2 MacBookPro8,3	4	1	3	
Intel HD Graphics 3000	0x00020000		1	1		
Intel HD Graphics 3000	0x00030010	Macmini5,1 Macmini5,3	3		2	1
Intel HD Graphics 3000	0x00030020	Macmini5,1 Macmini5,3	3		2	1
Intel HD Graphics 3000	0x00030030	Macmini5,2	0			
Intel HD Graphics 3000	0x00040000	MacBookAir4,1 MacBookAir4,2	3	1	2	
Intel HD Graphics 3000	0x00050000	iMac12,1/iMac12,2	0			

```

1  UINT8 sandy_bridge_hd_vals[13][4] = {
2      { 0x00, 0x00, 0x00, 0x00 }, //0 "AAPL00,DataJustify"
3      { 0x00, 0x00, 0x00, 0x00 }, //1 "AAPL00,Dither"
4      { 0x00, 0x00, 0x00, 0x00 }, //2 "AAPL00,LinkFormat"
5      { 0x00, 0x00, 0x00, 0x00 }, //3 "AAPL00,LinkType"
6      { 0x00, 0x00, 0x00, 0x00 }, //4 "AAPL00,PixelFormat"
7      { 0x00, 0x00, 0x00, 0x00 }, //5 "AAPL00,T1"
8      { 0x14, 0x00, 0x00, 0x00 }, //6 "AAPL00,T2"

```

```

9     { 0xfa, 0x00, 0x00, 0x00 }, //7 "AAPL00,T3"
10    { 0x2c, 0x01, 0x00, 0x00 }, //8 "AAPL00,T4"
11    { 0x00, 0x00, 0x00, 0x00 }, //9 "AAPL00,T5"
12    { 0x14, 0x00, 0x00, 0x00 }, //10 "AAPL00,T6"
13    { 0xf4, 0x01, 0x00, 0x00 }, //11 "AAPL00,T7"
14    { 0x04, 0x00, 0x00, 0x00 }, //12 "graphic-options"
15 };

```

ivy bridge平台

[BL:0x0710]

型号	platform-id	机型	接口	LVDS	DP	HDMI
Intel HD Graphics 4000	0x01660000		4	1	3	
Intel HD Graphics 4000	0x01660001	MacBookPro10,2	4	1	2	1
Intel HD Graphics 4000	0x01660002	MacBookPro10,1	1	1		
Intel HD Graphics 4000	0x01660003	MacBookPro9,2	4	1	3	
Intel HD Graphics 4000	0x01660004	MacBookPro9,1	1	1		
Intel HD Graphics 4000	0x01660005		3		3	
Intel HD Graphics 4000	0x01660006	iMac13,1	0			
Intel HD Graphics 4000	0x01660007	iMac13,2	0			
Intel HD Graphics 4000	0x01660008	MacBookAir5,1	3	1	2	
Intel HD Graphics 4000	0x01660009	MacBookAir5,2	3	1	2	
Intel HD Graphics 4000	0x0166000a	Macmini6,1	3		2	1
Intel HD Graphics 4000	0x0166000b	Macmini6,2	3		2	1

```

1  UINT8 ivy_bridge_hd_vals[1][4] = {
2    { 0x0c, 0x00, 0x00, 0x00 }, //0 "graphics-options"
3  };

```


haswell平台

显卡型号	platform-id	机型	接口	LVDS	DP	eDP	HDMI
	0x04060000		3	1		1	1
	0x0c060000		3	1		1	1
Intel HD Graphics 4600	0x04160000		3	1		1	1
Intel HD Graphics 4400	0x0a160000		3	1		1	1
	0x0c160000		3	1		1	1
Intel HD Graphics 5000	0x04260000		3	1		1	1
Intel HD Graphics 5000	0x0a260000		3	1		1	1
	0x0c260000		3	1		1	1
Intel Iris Pro Graphics 5200	0x0d260000		3	1		1	1
	0x0d220003	iMac14,1 iMac14,4	3	1	2		
Intel HD Graphics 4600	0x04120004						
Intel HD Graphics 5000	0x0a260005		3	1	2		
Intel HD Graphics 5000	0x0a260006	MacBookAir6,1 MacBookAir6,2 Macmini7,1	3	1	2		
Intel Iris Pro Graphics 5200	0x0d260007	MacBookPro11,2 MacBookPro11,3	4	1	2		1
Intel Iris Graphics 5100	0x0a2e0008	MacBookPro11,1	3	1	2		
Intel HD Graphics 4600	0x0412000b	iMac15,1	0				

```

1  UINT8 haswell_hd_vals[1][4] = {
2      { 0x0c, 0x00, 0x00, 0x00 },    //0 "graphics-options"
3  };

```

broadwell平台

显卡型号	platform-id	机型	接口	LVDS	DP	eDP	HDMI
	0x16060000		3	1		1	1
	0x160e0001		3	1	2		
Intel HD Graphics 5500	0x16160000		3	1		1	1
Intel HD Graphics 5300	0x161e0000		3	1		1	1
Intel Iris Pro Graphics 6200	0x16220000		3	1		1	1
Intel HD Graphics 6000	0x16260000		3	1		1	1
Intel Iris Graphics 6100	0x162b0000		3	1		1	1
Intel HD Graphics 5300	0x161e0001	MacBook8,1	3	1	2		
	0x16060002		3	1	2		
Intel HD Graphics 5500	0x16160002		3	1	2		
Intel Iris Pro Graphics 6200	0x16220002		3	1	2		
Intel HD Graphics 6000	0x16260002		3	1	2		
Intel Iris Graphics 6100	0x162b0002	MacBookPro12,1	3	1	2		
Intel HD Graphics 5600	0x16120003		3	1	2		
Intel HD Graphics 6000	0x16260004		3	1	2		
Intel Iris Graphics 6100	0x162b0004		3	1	2		
Intel HD Graphics 6000	0x16260005		3	1	2		

Intel HD Graphics 6000	0x16260006	iMac16,1 MacBookAir7,1 MacBookAir7,2	3	1	2		
Intel Iris Pro Graphics6200	0x16220007	iMac16,2	3	1	2		
Intel HD Graphics 6000	0x16200008		2	1	1		
Intel Iris Graphics 6100	0x162b0008		3	1	2		

```

1  UINT8 broadwell_hd_vals[2][4] = {
2      { 0x0c, 0x00, 0x00, 0x00 },    //0 "graphics-options"
3      { 0x0c, 0x00, 0x00, 0x00 },    //1 "AAPL,ig-tcon-scaler"
4  };

```

skylake平台

[BL:0x056c]

显卡型号	platform-id	机型	接口	LVDS	DP	HDMI
Intel HD Graphics 530	0x19120000		3		3	
Intel HD Graphics 520	0x19160000		3	1	2	
Intel Iris Graphics 540	0x19260000		3	1	2	
Intel Iris Graphics 550	0x19270000		3	1	2	
Intel HD Graphics 530	0x191b0000	MacBookPro13,3	3	1	2	
Intel HD Graphics 515	0x191e0000		3	1	2	
Intel Iris Pro Graphics 580	0x193b0000		3	1	1	1
Intel HD Graphics 530/4K*	0x193b0005	MacBookPro13,1	4	1	3	
Intel HD Graphics 510	0x19020001		0			

Intel HD Graphics 530	0x19120001		0		
	0x19170001		0		
Intel Iris Pro Graphics 580	0x19320001		0		
Intel HD Graphics 520	0x19160002		3	1	2
Intel Iris Graphics 540	0x19260002	MacBookPro13,1	3	1	2
Intel HD Graphics 515	0x191e0003	MacBook9,1	3	1	2
Intel Iris Graphics 540	0x19260004		3	1	2
Intel Iris Graphics 550	0x19270004	MacBookPro13,2	3	1	2
Intel HD Graphics 530	0x191b0006		1		
Intel Iris Graphics 540	0x19260007		3	1	2

```

1  UINT8 skylake_hd_vals[12][4] = {
2      { 0x01, 0x00, 0x00, 0x00 }, //0 "AAPL,Gfx324"
3      { 0x01, 0x00, 0x00, 0x00 }, //1 "AAPL,GfxYTile"
4      { 0xfa, 0x00, 0x00, 0x00 }, //2 "AAPL00,PanelCycleDelay"
5      { 0x11, 0x00, 0x00, 0x08 }, //3 "AAPL00,PanelPowerDown" - MacBook
6      { 0x11, 0x00, 0x00, 0x00 }, //4 "AAPL00,PanelPowerOff" - MacBook
7      { 0xe2, 0x00, 0x00, 0x08 }, //5 "AAPL00,PanelPowerOn" - MacBook
8      { 0x48, 0x00, 0x00, 0x00 }, //6 "AAPL00,PanelPowerUp" - MacBook
9      { 0x3c, 0x00, 0x00, 0x08 }, //7 "AAPL00,PanelPowerDown" - MacBookPr
10     { 0x11, 0x00, 0x00, 0x00 }, //8 "AAPL00,PanelPowerOff" - MacBookPr
11     { 0x19, 0x01, 0x00, 0x08 }, //9 "AAPL00,PanelPowerOn" - MacBookPr
12     { 0x30, 0x00, 0x00, 0x00 }, //10 "AAPL00,PanelPowerUp" - MacBookPr
13     { 0x0c, 0x00, 0x00, 0x00 }, //11 "graphic-options"
14 };

```

kabylake平台

[BL:0x056c]

显卡型号	platform-id	机型	接口	LVDS	DP	HDMI
------	-------------	----	----	------	----	------

Intel HD Graphics 630	0x59120000	iMac18,2 iMac18,3	3		3	
Intel HD Graphics 630	0x59120003	FCPX加速用	0			
Intel HD Graphics 620	0x59160000	MacBookPro14,2	3	1	2	
Intel HD Graphics 620	0x59160009		3	1	2	
	0x59180002					
Intel HD Graphics 630	0x591b0000	MacBookPro14,3	3	1	2	
Intel HD Graphics 630	0x591b0006		1	1		
	0x591c0005		3	1	2	
Intel HD Graphics 615	0x591e0000		3	1	2	
Intel HD Graphics 615	0x591e0001	MacBook10,1	3	1	2	
Intel HD Graphics 635	0x59230000		3	1	2	
Intel Iris Plus Graphics 640	0x59260000		3	1	2	
Intel Iris Plus Graphics 640	0x59260002	MacBookPro14,1 iMac18,1	3	1	2	
Intel Iris Plus Graphics 640	0x59260007		3	1	2	
Intel Iris Plus Graphics 650	0x59270000		3	1	2	
Intel Iris Plus Graphics 650	0x59270004	MacBookPro14,2	3	1	2	
Intel Iris Plus Graphics 650	0x59270009		3	1	2	
Intel UHD Graphics 617	0x87c00000		3	1	2	
Intel UHD Graphics 617	0x87c00005	MacBookAir8,1	3	1	2	

```

1  UINT8 kabylake_hd_vals[12][4] = {
2  { 0x01, 0x00, 0x00, 0x00 }, //0 "AAPL,Gfx324"

```

```

3 { 0x01, 0x00, 0x00, 0x00 }, //1 "AAPL,GfxYTile"
4 { 0xfa, 0x00, 0x00, 0x00 }, //2 "AAPL00,PanelCycleDelay"
5 { 0x11, 0x00, 0x00, 0x08 }, //3 "AAPL00,PanelPowerDown" - MacBook
6 { 0x11, 0x00, 0x00, 0x00 }, //4 "AAPL00,PanelPowerOff" - MacBook
7 { 0xe2, 0x00, 0x00, 0x08 }, //5 "AAPL00,PanelPowerOn" - MacBook
8 { 0x48, 0x00, 0x00, 0x00 }, //6 "AAPL00,PanelPowerUp" - MacBook
9 { 0x3c, 0x00, 0x00, 0x08 }, //7 "AAPL00,PanelPowerDown" - MacBookPr
10 { 0x11, 0x00, 0x00, 0x00 }, //8 "AAPL00,PanelPowerOff" - MacBookPr
11 { 0x19, 0x01, 0x00, 0x08 }, //9 "AAPL00,PanelPowerOn" - MacBookPr
12 { 0x30, 0x00, 0x00, 0x00 }, //10 "AAPL00,PanelPowerUp" - MacBookPr
13 { 0x0c, 0x00, 0x00, 0x00 }, //11 "graphic-options"
14 };

```

cafeelake平台

[BL:0xffff VRAM:1536MB FBMEM:0MB]

显卡型号	platform-id	机型	接口	LVDS	DP	STOLEN
	0x3E000000		3	1	2	57mb
Intel UHD Graphics 630	3E910003					
Intel UHD Graphics 630	3E920000		3	1	2	57mb
Intel UHD Graphics 630	3E920003	FCPX加速用				
Intel UHD Graphics 630	3E920009		1	1		57mb
Intel UHD Graphics 630	3E9B0000	MacBookPro15,1	3	1	2	57mb
Intel UHD Graphics 630	3E9B0006		1	1		38mb
Intel UHD Graphics 630	3E9B0007	Macmini8,1	3		3	57mb
Intel UHD Graphics 630	3E9B0009		3	1	2	57mb
Intel Iris Plus Graphics 655	3EA50000		3	1	2	57mb
Intel Iris Plus Graphics 655	3EA50004	MacBookPro15,2	3	1	2	57mb

Intel Iris Plus Graphics 655	3EA50009	3	1	2	57mb
------------------------------	----------	---	---	---	------

```

1  UINT8 coffeelake_hd_vals[8][4] = {
2      { 0x01, 0x00, 0x00, 0x00 }, //0 "AAPL,Gfx324" - MacBookPr
3      { 0x01, 0x00, 0x00, 0x00 }, //1 "AAPL,GfxYTile"
4      { 0xfa, 0x00, 0x00, 0x00 }, //2 "AAPL00,PanelCycleDelay"
5      { 0x3c, 0x00, 0x00, 0x08 }, //3 "AAPL00,PanelPowerDown" - MacBookPr
6      { 0x11, 0x00, 0x00, 0x00 }, //4 "AAPL00,PanelPowerOff" - MacBookPr
7      { 0x19, 0x01, 0x00, 0x08 }, //5 "AAPL00,PanelPowerOn" - MacBookPr
8      { 0x30, 0x00, 0x00, 0x00 }, //6 "AAPL00,PanelPowerUp" - MacBookPr
9      { 0x0c, 0x00, 0x00, 0x00 }, //7 "graphic-options"
10 };

```

新增平台

显卡型号	platform-id	机型	接口	LVDS	DP	HDMI
Intel UHD Graphics 620	0x3ea00000	仿冒3e9b0007				
Intel UHD Graphics 617	0x87c00000	MacBookAir8,1				
Intel UHD Graphics 630	0x3e9b0007	MacBookPro15,1 Macmini8,1			3	

已知GPU的列表

```

1  static struct gma_gpu_t KnownGPUS[] = {
2      { 0xFFFF, "Intel Unsupported" }, // common name for unsu
3  #if WILL_WORK
4      //===== PowerVR =====
5      //-----Canmore/Sodaville/Groveland-----
6      { 0x2E5B, "Intel 500" }, //
7
8      //-----Poulsbo-----
9      { 0x8108, "Intel 500" }, // Menlow
10     { 0x8109, "Intel 500" }, // Menlow
11
12     //-----Lincroft-----
13     { 0x4102, "Intel 600" }, // Moorestown
14

```

```
15 //-----Cedarview-----
16 { 0x0BE0, "Intel GMA 3600" }, // Cedar Trail
17 { 0x0BE1, "Intel GMA 3600" }, // Cedar Trail
18 { 0x0BE2, "Intel GMA 3650" }, // Cedar Trail
19 { 0x0BE3, "Intel GMA 3650" }, // Cedar Trail
20
21 //-----Cloverview-----
22 { 0x08C7, "Intel GMA" }, // Clover Trail
23 { 0x08C8, "Intel GMA" }, // Clover Trail
24 { 0x08C9, "Intel GMA" }, // Clover Trail
25 { 0x08CA, "Intel GMA" }, // Clover Trail
26 { 0x08CB, "Intel GMA" }, // Clover Trail
27 { 0x08CC, "Intel GMA" }, // Clover Trail
28 { 0x08CD, "Intel GMA" }, // Clover Trail
29 { 0x08CE, "Intel GMA" }, // Clover Trail
30 { 0x08CF, "Intel GMA" }, // Clover Trail
31
32
33 //===== 1st generation =====
34 //-----Auburn-----
35 { 0x7800, "Intel 740" }, // Desktop - Intel 740
36
37 //-----Portola-----
38 { 0x1240, "Intel 752" }, // Desktop - Intel 752
39
40 //-----Whitney-----
41 { 0x7121, "Intel 3D graphics 810" }, // Desktop - Intel 810
42 { 0x7123, "Intel 3D graphics 810" }, // Desktop - Intel 810
43 { 0x7125, "Intel 3D graphics 810" }, // Desktop - Intel 810
44
45 //-----Solano-----
46 { 0x1132, "Intel 3D graphics 815" }, // Desktop - Intel 815
47
48
49 //===== 2nd generation =====
50 //-----Almador-----
51 { 0x3577, "Intel Extreme Graphics 830" }, // Mobile - Intel 830M
52 { 0x357B, "Intel Extreme Graphics 835" }, // Desktop - Intel 8350
53
54 //-----Brookdale-----
55 { 0x2562, "Intel Extreme Graphics 845" }, // Desktop - Intel 8450
56
57 //-----Montara-----
58 { 0x358E, "Intel Extreme Graphics 2 854" }, // Mobile - Intel 852GM
```



```
59 { 0x3582, "Intel Extreme Graphics 2 855" }, // Mobile - Intel 852GM
60
61 //-----Springdale-----
62 { 0x2572, "Intel Extreme Graphics 2 865" }, // Desktop - Intel 8650
63
64
65 //===== 3rd generation =====
66 //-----Grantsdale-----
67 { 0x2582, "Intel GMA 900" }, // Desktop - Intel 9150
68 { 0x258A, "Intel GMA 900" }, // Desktop - Intel 9150
69 { 0x2782, "Intel GMA 900" }, // Desktop - Intel 9150
70
71 //-----Alviso-----
72 { 0x2592, "Intel GMA 900" }, // Mobile - Intel 82915
73 { 0x2792, "Intel GMA 900" }, // Mobile - Intel 82915
74 #endif
75 //-----Lakeport-----
76 { 0x2772, "Intel GMA 950" }, // Desktop - Intel 8294
77 { 0x2776, "Intel GMA 950" }, // Desktop - Intel 8294
78
79 //-----Calistoga-----
80 { 0x27A2, "Intel GMA 950" }, // Mobile - Intel 945GM
81 { 0x27A6, "Intel GMA 950" }, // Mobile - Intel 945GM
82 { 0x27AE, "Intel GMA 950" }, // Mobile - Intel 945GM
83 #if WILL_WORK
84 //-----Bearlake-----
85 { 0x29B2, "Intel GMA 3100" }, // Desktop - Intel Q35
86 { 0x29B3, "Intel GMA 3100" }, // Desktop - Intel Q35
87 { 0x29C2, "Intel GMA 3100" }, // Desktop - Intel G33/
88 { 0x29C3, "Intel GMA 3100" }, // Desktop - Intel G33/
89 { 0x29D2, "Intel GMA 3100" }, // Desktop - Intel Q33
90 { 0x29D3, "Intel GMA 3100" }, // Desktop - Intel Q33
91
92 //-----Pineview-----
93 { 0xA001, "Intel GMA 3150" }, // Nettop - Intel NetTo
94 { 0xA002, "Intel GMA 3150" }, // Nettop - Intel NetTo
95 { 0xA011, "Intel GMA 3150" }, // Netbook - Intel NetB
96 { 0xA012, "Intel GMA 3150" }, // Netbook - Intel NetB
97
98
99 //===== 4th generation =====
100 //-----Lakeport-----
101 { 0x2972, "Intel GMA 3000" }, // Desktop - Intel 9460
102 { 0x2973, "Intel GMA 3000" }, // Desktop - Intel 9460
```

```
103
104 //-----Broadwater-----
105 { 0x2992, "Intel GMA 3000" }, // Desktop - Intel Q965
106 { 0x2993, "Intel GMA 3000" }, // Desktop - Intel Q965
107 { 0x29A2, "Intel GMA X3000" }, // Desktop - Intel G965
108 { 0x29A3, "Intel GMA X3000" }, // Desktop - Intel G965
109 #endif
110 //-----Crestline-----
111 { 0x2A02, "Intel GMA X3100" }, // Mobile - Intel 965 B
112 { 0x2A03, "Intel GMA X3100" }, // Mobile - Intel 965 B
113 { 0x2A12, "Intel GMA X3100" }, // Mobile - Intel 965 B
114 { 0x2A13, "Intel GMA X3100" }, // Mobile - Intel 965 B
115 #if WILL_WORK
116 //-----Bearlake-----
117 { 0x2982, "Intel GMA X3500" }, // Desktop - Intel G35
118 { 0x2983, "Intel GMA X3500" }, // Desktop - Intel G35
119
120 //-----Eaglelake-----
121 { 0x2E02, "Intel GMA 4500" }, // Desktop - Intel 4 Se
122 { 0x2E03, "Intel GMA 4500" }, // Desktop - Intel 4 Se
123 { 0x2E12, "Intel GMA 4500" }, // Desktop - Intel G45/
124 { 0x2E13, "Intel GMA 4500" }, // Desktop - Intel G45/
125 { 0x2E42, "Intel GMA 4500" }, // Desktop - Intel B43
126 { 0x2E43, "Intel GMA 4500" }, // Desktop - Intel B43
127 { 0x2E92, "Intel GMA 4500" }, // Desktop - Intel B43
128 { 0x2E93, "Intel GMA 4500" }, // Desktop - Intel B43
129 { 0x2E32, "Intel GMA X4500" }, // Desktop - Intel G45/
130 { 0x2E33, "Intel GMA X4500" }, // Desktop - Intel G45/
131 { 0x2E22, "Intel GMA X4500" }, // Mobile - Intel G45/C
132 { 0x2E23, "Intel GMA X4500HD" }, // Mobile - Intel G45/C
133
134 //-----Cantiga-----
135 { 0x2A42, "Intel GMA X4500MHD" }, // Mobile - Intel 4 Ser
136 { 0x2A43, "Intel GMA X4500MHD" }, // Mobile - Intel 4 Ser
137
138 #endif
139 //===== 5th generation =====
140 //-----Ironlake-----
141 { 0x0042, "Intel HD Graphics" }, // Desktop - Clarkdale
142 { 0x0046, "Intel HD Graphics" }, // Mobile - Arrandale -
143
144
145 //===== 6th generation =====
146 //-----Sandy Bridge-----
```

```
147 //GT1
148 { 0x0102, "Intel HD Graphics 2000" }, // Desktop - iMac12,x
149 { 0x0106, "Intel HD Graphics 2000" }, // Mobile
150 { 0x010A, "Intel HD Graphics P3000" }, // Server
151 //GT2
152 { 0x0112, "Intel HD Graphics 3000" }, // Desktop
153 { 0x0116, "Intel HD Graphics 3000" }, // Mobile - MacBookAir4
154 { 0x0122, "Intel HD Graphics 3000" }, // Desktop
155 { 0x0126, "Intel HD Graphics 3000" }, // Mobile - MacBookPro8
156
157
158 //===== 7th generation =====
159 //-----Ivy Bridge-----
160 //GT1
161 { 0x0152, "Intel HD Graphics 2500" }, // Desktop - iMac13,x
162 { 0x0156, "Intel HD Graphics 2500" }, // Mobile
163 { 0x015A, "Intel HD Graphics 2500" }, // Server
164 { 0x015E, "Intel Ivy Bridge GT1" }, // Reserved
165 //GT2
166 { 0x0162, "Intel HD Graphics 4000" }, // Desktop
167 { 0x0166, "Intel HD Graphics 4000" }, // Mobile - MacBookPro9
168 { 0x016A, "Intel HD Graphics P4000" }, // Server
169
170 //-----Haswell-----
171 //GT1
172 { 0x0402, "Intel Haswell GT1" }, // Desktop
173 { 0x0406, "Intel Haswell GT1" }, // Mobile
174 { 0x040A, "Intel Haswell GT1" }, // Server
175 { 0x040B, "Intel Haswell GT1" }, //
176 { 0x040E, "Intel Haswell GT1" }, //
177 //GT2
178 { 0x0412, "Intel HD Graphics 4600" }, // Desktop - iMac15,1
179 { 0x0416, "Intel HD Graphics 4600" }, // Mobile
180 { 0x041A, "Intel HD Graphics P4600" }, // Server
181 { 0x041B, "Intel Haswell GT2" }, //
182 { 0x041E, "Intel HD Graphics 4400" }, //
183 //GT3
184 { 0x0422, "Intel HD Graphics 5000" }, // Desktop
185 { 0x0426, "Intel HD Graphics 5000" }, // Mobile
186 { 0x042A, "Intel HD Graphics 5000" }, // Server
187 { 0x042B, "Intel Haswell GT3" }, //
188 { 0x042E, "Intel Haswell GT3" }, //
189 //GT1
190 { 0x0A02, "Intel Haswell GT1" }, // Desktop ULT
```

```
191 { 0x0A06, "Intel HD Graphics" }, // Mobile ULT
192 { 0x0A0A, "Intel Haswell GT1" }, // Server ULT
193 { 0x0A0B, "Intel Haswell GT1" }, // ULT
194 { 0x0A0E, "Intel Haswell GT1" }, // ULT
195 //GT2
196 { 0x0A12, "Intel Haswell GT2" }, // Desktop ULT
197 { 0x0A16, "Intel HD Graphics 4400" }, // Mobile ULT
198 { 0x0A1A, "Intel Haswell GT2" }, // Server ULT
199 { 0x0A1B, "Intel Haswell GT2" }, // ULT
200 { 0x0A1E, "Intel HD Graphics 4200" }, // ULT
201 //GT3
202 { 0x0A22, "Intel Iris Graphics 5100" }, // Desktop ULT
203 { 0x0A26, "Intel HD Graphics 5000" }, // Mobile ULT - MacBook
204 { 0x0A2A, "Intel Iris Graphics 5100" }, // Server ULT
205 { 0x0A2B, "Intel Iris Graphics 5100" }, // ULT
206 { 0x0A2E, "Intel Iris Graphics 5100" }, // ULT - MacBookPro11,1
207 //GT1
208 { 0x0C02, "Intel Haswell GT1" }, // Desktop SDV
209 { 0x0C06, "Intel Haswell GT1" }, // Mobile SDV
210 { 0x0C0A, "Intel Haswell GT1" }, // Server SDV
211 { 0x0C0B, "Intel Haswell GT1" }, // SDV
212 { 0x0C0E, "Intel Haswell GT1" }, // SDV
213 //GT2
214 { 0x0C12, "Intel Haswell GT2" }, // Desktop SDV
215 { 0x0C16, "Intel Haswell GT2" }, // Mobile SDV
216 { 0x0C1A, "Intel Haswell GT2" }, // Server SDV
217 { 0x0C1B, "Intel Haswell GT2" }, // SDV
218 { 0x0C1E, "Intel Haswell GT2" }, // SDV
219 //GT3
220 { 0x0C22, "Intel Haswell GT3" }, // Desktop SDV
221 { 0x0C26, "Intel Haswell GT3" }, // Mobile SDV
222 { 0x0C2A, "Intel Haswell GT3" }, // Server SDV
223 { 0x0C2B, "Intel Haswell GT3" }, // SDV
224 { 0x0C2E, "Intel Haswell GT3" }, // SDV
225 //GT1
226 { 0x0D02, "Intel Haswell GT1" }, // Desktop CRW
227 { 0x0D06, "Intel Haswell GT1" }, // Mobile CRW
228 { 0x0D0A, "Intel Haswell GT1" }, // Server CRW
229 { 0x0D0B, "Intel Haswell GT1" }, // CRW
230 { 0x0D0E, "Intel Haswell GT1" }, // CRW
231 //GT2
232 { 0x0D12, "Intel HD Graphics 4600" }, // Desktop CRW
233 { 0x0D16, "Intel HD Graphics 4600" }, // Mobile CRW
234 { 0x0D1A, "Intel Haswell GT2" }, // Server CRW
```

```
235 { 0x0D1B, "Intel Haswell GT2" }, // CRW
236 { 0x0D1E, "Intel Haswell GT2" }, // CRW
237 //GT3
238 { 0x0D22, "Intel Iris Pro Graphics 5200" }, // Desktop CRW - iMac14
239 { 0x0D26, "Intel Iris Pro Graphics 5200" }, // Mobile CRW - MacBook
240 { 0x0D2A, "Intel Iris Pro Graphics 5200" }, // Server CRW
241 { 0x0D2B, "Intel Iris Pro Graphics 5200" }, // CRW
242 { 0x0D2E, "Intel Iris Pro Graphics 5200" }, // CRW
243
244 //-----ValleyView-----
245 { 0x0F30, "Intel HD Graphics" }, // Bay Trail
246 { 0x0F31, "Intel HD Graphics" }, // Bay Trail
247 { 0x0F32, "Intel HD Graphics" }, // Bay Trail
248 { 0x0F33, "Intel HD Graphics" }, // Bay Trail
249 { 0x0155, "Intel HD Graphics" }, // Bay Trail
250 { 0x0157, "Intel HD Graphics" }, // Bay Trail
251
252
253 //===== 8th generation =====
254 //-----Broadwell-----
255 //GT1
256 { 0x1602, "Intel Broadwell GT1" }, // Desktop
257 { 0x1606, "Intel Broadwell GT1" }, // Mobile
258 { 0x160A, "Intel Broadwell GT1" }, //
259 { 0x160B, "Intel Broadwell GT1" }, //
260 { 0x160D, "Intel Broadwell GT1" }, //
261 { 0x160E, "Intel Broadwell GT1" }, //
262 //GT2
263 { 0x1612, "Intel HD Graphics 5600" }, // Mobile
264 { 0x1616, "Intel HD Graphics 5500" }, // Mobile
265 { 0x161A, "Intel Broadwell GT2" }, //
266 { 0x161B, "Intel Broadwell GT2" }, //
267 { 0x161D, "Intel Broadwell GT2" }, //
268 { 0x161E, "Intel HD Graphics 5300" }, // Ultramobile - MacBook
269 //GT3
270 { 0x1626, "Intel HD Graphics 6000" }, // Mobile - iMac16,1/Ma
271 { 0x162B, "Intel Iris Graphics 6100" }, // Mobile - MacBookPro1
272 { 0x162D, "Intel Iris Pro Graphics P6300" }, // Workstation, Mobile
273 //GT3e
274 { 0x1622, "Intel Iris Pro Graphics 6200" }, // Desktop, Mobile - iM
275 { 0x162A, "Intel Iris Pro Graphics P6300" }, // Workstation
276 //RSVD
277 { 0x162E, "Intel Broadwell RSVD" }, // Reserved
278 { 0x1632, "Intel Broadwell RSVD" }, // Reserved
```

```
279 { 0x1636, "Intel Broadwell RSVD" }, // Reserved
280 { 0x163A, "Intel Broadwell RSVD" }, // Reserved
281 { 0x163B, "Intel Broadwell RSVD" }, // Reserved
282 { 0x163D, "Intel Broadwell RSVD" }, // Reserved
283 { 0x163E, "Intel Broadwell RSVD" }, // Reserved
284
285 //-----Cherryview/Braswell-----
286 { 0x22B0, "Intel HD Graphics 400" }, // Cherry Trail - Atom
287 { 0x22B1, "Intel HD Graphics 405" }, // Cherry Trail - Atom
288 { 0x22B2, "Intel HD Graphics 400" }, // Braswell - Celeron C
289 { 0x22B3, "Intel HD Graphics 405" }, // Braswell - Pentium C
290
291
292 //===== 9th generation =====
293 //-----Skylake-----
294 //GT1
295 { 0x1902, "Intel HD Graphics 510" }, // Desktop
296 { 0x1906, "Intel HD Graphics 510" }, // Mobile
297 { 0x190A, "Intel Skylake GT1" }, //
298 { 0x190B, "Intel HD Graphics 510" }, //
299 { 0x190E, "Intel Skylake GT1" }, //
300 //GT2
301 { 0x1912, "Intel HD Graphics 530" }, // Desktop - iMac17,1
302 { 0x1916, "Intel HD Graphics 520" }, // Mobile
303 { 0x191A, "Intel Skylake GT2" }, //
304 { 0x191B, "Intel HD Graphics 530" }, // Mobile - MacBookPro1
305 { 0x191D, "Intel HD Graphics P530" }, // Workstation, Mobile
306 { 0x191E, "Intel HD Graphics 515" }, // Mobile - MacBook9,1
307 { 0x1921, "Intel HD Graphics 520" }, //
308 //GT2f
309 { 0x1913, "Intel Skylake GT2f" }, //
310 { 0x1915, "Intel Skylake GT2f" }, //
311 { 0x1917, "Intel Skylake GT2f" }, //
312 //GT3
313 { 0x1923, "Intel HD Graphics 535" }, //
314 //GT3e
315 { 0x1926, "Intel Iris Graphics 540" }, // Mobile - MacBookPro1
316 { 0x1927, "Intel Iris Graphics 550" }, // Mobile - MacBookPro1
317 { 0x192B, "Intel Iris Graphics 555" }, //
318 { 0x192D, "Intel Iris Graphics P555" }, // Workstation
319 //GT4
320 { 0x192A, "Intel Skylake GT4" }, //
321 //GT4e
322 { 0x1932, "Intel Iris Pro Graphics 580" }, // Desktop
```

```
323 { 0x193A, "Intel Iris Pro Graphics P580" }, // Server
324 { 0x193B, "Intel Iris Pro Graphics 580" }, // Mobile
325 { 0x193D, "Intel Iris Pro Graphics P580" }, // Workstation, Mobile
326
327 //-----Goldmont-----
328 { 0x0A84, "Intel HD Graphics" }, // Broxton(cancelled)
329 { 0x1A84, "Intel HD Graphics" }, // Broxton(cancelled)
330 { 0x1A85, "Intel HD Graphics" }, // Broxton(cancelled)
331 { 0x5A84, "Intel HD Graphics 505" }, // Apollo Lake
332 { 0x5A85, "Intel HD Graphics 500" }, // Apollo Lake
333
334 //-----Kaby Lake-----
335 //GT1
336 { 0x5902, "Intel HD Graphics 610" }, // Desktop
337 { 0x5906, "Intel HD Graphics 610" }, // Mobile
338 { 0x5908, "Intel Kaby Lake GT1" }, //
339 { 0x590A, "Intel Kaby Lake GT1" }, //
340 { 0x590B, "Intel Kaby Lake GT1" }, //
341 { 0x590E, "Intel Kaby Lake GT1" }, //
342 //GT1.5
343 { 0x5913, "Intel Kaby Lake GT1.5" }, //
344 { 0x5915, "Intel Kaby Lake GT1.5" }, //
345 //GT2
346 { 0x5912, "Intel HD Graphics 630" }, // Desktop - iMac18,2/1
347 { 0x5916, "Intel HD Graphics 620" }, // Mobile
348 { 0x591A, "Intel HD Graphics P630" }, // Server
349 { 0x591B, "Intel HD Graphics 630" }, // Mobile - MacBookPro1
350 { 0x591D, "Intel HD Graphics P630" }, // Workstation, Mobile
351 { 0x591E, "Intel HD Graphics 615" }, // Mobile - MacBook10,1
352 //GT2F
353 { 0x5921, "Intel Kaby Lake GT2F" }, //
354 //GT3
355 { 0x5923, "Intel HD Graphics 635" }, //
356 { 0x5926, "Intel Iris Plus Graphics 640" }, // Mobile - MacBookPro1
357 { 0x5927, "Intel Iris Plus Graphics 650" }, // Mobile - MacBookPro1
358 //GT4
359 { 0x593B, "Intel Kaby Lake GT4" }, //
360
361 //-----Kaby Lake Refresh-----
362 //GT1.5
363 { 0x5917, "Intel UHD Graphics 620" }, // Mobile
364
365 //-----Amber Lake-----
366 //GT2
```

```
367 { 0x591C, "Intel UHD Graphics 615" }, // Kaby Lake
368 { 0x87C0, "Intel UHD Graphics 617" }, // Kaby Lake - Mobile
369 { 0x87CA, "Intel Amber Lake GT2" }, // Coffee Lake
370
371 //-----Coffee Lake-----
372 //GT1
373 { 0x3E90, "Intel UHD Graphics 610" }, // Desktop
374 { 0x3E93, "Intel UHD Graphics 610" }, // Desktop
375 { 0x3E99, "Intel Coffee Lake GT1" }, //
376 //GT2
377 { 0x3E91, "Intel UHD Graphics 630" }, // Desktop
378 { 0x3E92, "Intel UHD Graphics 630" }, // Desktop
379 { 0x3E94, "Intel Coffee Lake GT2" }, //
380 { 0x3E96, "Intel Coffee Lake GT2" }, //
381 { 0x3E98, "Intel UHD Graphics 630" }, // Desktop
382 { 0x3E9A, "Intel Coffee Lake GT2" }, //
383 { 0x3E9B, "Intel UHD Graphics 630" }, // Mobile - MacBookPro1
384 { 0x3EA9, "Intel Coffee Lake GT2" }, //
385 //GT3
386 { 0x3EA5, "Intel Iris Plus Graphics 655" }, // Mobile - MacBookPro1
387 { 0x3EA6, "Intel Coffee Lake GT3" }, //
388 { 0x3EA7, "Intel Coffee Lake GT3" }, //
389 { 0x3EA8, "Intel Coffee Lake GT3" }, //
390
391 //-----Whiskey Lake-----
392 //GT1
393 { 0x3EA1, "Intel Whiskey Lake GT1" }, //
394 { 0x3EA4, "Intel Whiskey Lake GT1" }, //
395 //GT2
396 { 0x3EA0, "Intel UHD Graphics 620" }, // Mobile
397 { 0x3EA3, "Intel Whiskey Lake GT2" }, //
398 //GT3
399 { 0x3EA2, "Intel Whiskey Lake GT3" }, //
400
401 //-----Gemini Lake-----
402 { 0x3184, "Intel UHD Graphics 605" }, //
403 { 0x3185, "Intel UHD Graphics 600" }, //
404
405
406 //===== 10th generation =====
407 //-----Cannonlake-----
408 //GTx
409 { 0x5A40, "Intel Cannonlake GTx" }, //
410 //GT0.5
```



```

411 { 0x5A49, "Intel Cannonlake GT0.5" }, //
412 { 0x5A4A, "Intel Cannonlake GT0.5" }, //
413 //GT1
414 { 0x0A01, "Intel Cannonlake GT1" }, // Desktop
415 { 0x5A41, "Intel Cannonlake GT1" }, //
416 { 0x5A42, "Intel Cannonlake GT1" }, //
417 { 0x5A44, "Intel Cannonlake GT1" }, //
418 //GT1.5
419 { 0x5A59, "Intel Cannonlake GT1.5" }, //
420 { 0x5A5A, "Intel Cannonlake GT1.5" }, //
421 { 0x5A5C, "Intel Cannonlake GT1.5" }, //
422 //GT2
423 { 0x5A50, "Intel Cannonlake GT2" }, //
424 { 0x5A51, "Intel Cannonlake GT2" }, //
425 { 0x5A52, "Intel Cannonlake GT2" }, // Mobile
426 { 0x5A54, "Intel Cannonlake GT2" }, // Mobile
427
428
429 //===== 11th generation =====
430 //-----Ice Lake-----
431 //GT0.5
432 { 0x8A71, "Intel Ice Lake GT0.5" }, //
433 //GT1
434 { 0x8A5B, "Intel Ice Lake GT1" }, //
435 { 0x8A5D, "Intel Ice Lake GT1" }, //
436 //GT1.5
437 { 0x8A5A, "Intel Ice Lake GT1.5" }, //
438 { 0x8A5C, "Intel Ice Lake GT1.5" }, //
439 //GT2
440 { 0x8A50, "Intel Ice Lake GT2" }, //
441 { 0x8A51, "Intel Ice Lake GT2" }, //
442 { 0x8A52, "Intel Ice Lake GT2" }, //
443
444 //-----Lakefield-----
445 { 0x9840, "Intel Lakefield" }, //
446 { 0x9850, "Intel Lakefield" }, //
447
448 //-----Jasper Lake-----
449 { 0x4500, "Intel Jasper Lake" }, //
450
451 };

```

platform-id不存在于gma.c列表里


原文链接: <https://www.tonymacx86.com/threads/intel-hd-graphics-framebuffer-edits-desktop.125239/>

扩展阅读: [Intel FB-Patcher使用教程及插入姿势](#)

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939122730 [Mojave黑苹果交流II群](#) 2000人群

891677227 [黑果小兵高级群](#) 2000人群 尚有空位

943307869 [黑果小兵高级群II](#) 2000人群 新开群, 欢迎踊跃加入

943181023 [联想小新Air黑苹果交流群](#) 500人群 非专用机型请勿加入

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