

±Ò¥ÍÄä½tÁúκ/Ε¼ÒÀÀ;C Direct3D «ü©w¨ ä|³ Direct3D μwÁέ¥[³t¥\¨ à²º NVIDIA
¹İšİ³B²z,Ë,mÀ³,Ó¨à°÷°ö|æ³»ÁIÄúκ/Ε©ÍÄä½tÁúκ/Ε;C

³Æμù;G |³¨Ç¹CÀ,μL²k¥ç½T|a-d,ß Direct3D μwÁé®Ä¨à;A|ý-O«o»ÝnÄä½tÁúκ/Εæä´©;C
çİ³¼Ü!¹çİ¶μ¥i¥H½T«O±z²º NVIDIA ¹İšİ³B²z³¼¹¨à¥ç½T|a°ö|æ!¹Äp¹CÀ,;C

±j̄îµwÁé!Û°Ê±N̄ä Z ¶b½w½Ä²²` «x½Ö¾ã-°À³¶íµ{!;©Ò»Ý²²²` «x;C

³Æµù;G °£«D±z²²µs@½T¹ê»Ýn-YÓ-S©w²² Z ¶b½w½Ä²²` «x;A§_ «h±z³!;n̄!¹;î¶µ«O«ù±Ò¶íª-ºA;C
!p²G°±¶!¹;î¶µ;A«h¶u!³µs@ Z ¶b½w½Ä²²` «x»P¶Ø«eµwÁé²ÖªA-Û²Å²²³¶íµ{!;¶~`à°ð!æ;C

±Ò¥î²`«x½w½Ä³B²z²²'À¥N\$P³N;C

±Ò¥î¹¹¿ïµ¥iÄýµwÁé;b 16 ;ìæ,À³¥îµ{;;æ"ï¥îæ£;P²²²`«x½w½Ä³⁄÷"î;A¥H«K²£¥îµe½è,û²²² 3D
'yÄ,¼v¹³;C

±Ò¥Í Direct3D ¤¤²º NVIDIA ¼⁄»x;C

!p²G±Ò¥Í!¿i¶μ;A|b°õ|æ Direct3D À³¥Íμ{!; @É;A¿Ã¹õ¤U¤è²º“¤,“ ±N·|Åã¥Ü NVidia ¼⁄»x;C

±z²⁰ NVIDIA 1ĩšĩ³B²z, Ę, m¥i¥H!Ū°Ê³B²z MIP ¶K¹ĩ;A¥H´£°²¶x¬y±Æ²⁰§÷½è¶Ç¿é®Ä²v;A`Ä
´£`Ñ§ó°²⁰⁰À³¥ĩµ{!;®Ä`à;C

³Æµù;G |ý-O;A; b±Ö°Ê!Ū°Ê²£¥ĩ²⁰ MIP ¶K¹ĩ®É;A²@`ÇÀ³¥ĩµ{!;¥i`àµL²k¥¿½TÄã¥Ū;C nšó¥
¿!°YÄD;A½Đ°§C;Ū°Ê²£¥ĩ MIP ¶K¹ĩµ¥`Ä²⁰¼Æ¶q;A²½`ì¼v¹³¥i¥H¥¿½TÄã¥Ū¬°²ı;C °§C MIP
¶K¹ĩµ¥`Ä²⁰¼Æ¶q³q±`¥i¥H®ø°£§÷½è¶K¹ĩ²⁰ı£ı»ô©!;µe±¼¹µđ;v°YÄD;]!ý-O³o¼E«o|°§C®Ä`à;^;C

½Ö¾ä MIP ¶K¹îªº;uºë²Ó«x;v(LOD) °¾@tÈ;C

„û\$Cªº¾@tÈ·|´£¨Ñ\$ó;nªº¼v¹³«~½è;A;Ó„ûªªªº¾@tÈ«h·|´£ªÉÀ³¥îµ{;ªº@Ä-à;C
±z¥;b³î¨î¼v¹³«~½è»P³î¨îÄ-àª\$¶;ªºªÓ¹w³]º¾@tÈªª¶;i;æ;î¾¼Û;C

±zκwÀx!s²º!Ûq³]©wÈ;]©Î;u½Õ¾äÈ;v;^κ§²M³æ;C

Υn±Ò°Ê!¹³]©wÈ;A½Ð±q²M³æκκζĩ"úκ@Ó¶μ¥Ø"Ã¥B«öκ@κU®M¥Î;C

«ö@U¥H±N¥Ø«e²⁰³]©wÈ;]¥]-A;u``ä¥L Direct3D;v¹ï,Üæè[óææ²⁰³]©wÈ;^Àx|s-°;Ûq;u½Ö¾äÈ;v;C
Àx|s²⁰³]©wÈÀH«á·|s¼W!Ü-Û¾F²M³æ;C

|bSä``ì`S©w Direct3D ¹CÀ,æ²⁰³]``î³]©wÈæ§«á;A½D±N³]©wÈÀx|s-°;Ûq½Ö¾äÈ;A³o¼Ë±z
´N¥i;b±Ö°Ê¹CÀ,æ§«e``³³t²Ö²⁰A Direct3D;A;ÓµL»ÝæÀ§O³]©w``CÓ;ï¶µ;C

«ö@U¥H\$R°£¥Ø«e|b²M³ææçï©wª!Ûq³]©wÈ;C

«öæ@æU¥H±N©Ò!³³]©wÈÁÙì-°¹w³]È;C

«öæ@æU¥HÅã¥Üæ@Ó¹ï,Üæè¶ô;A±z¥i;b¨äææ;ÛqÃB¥~æº Direct3D ³]©wÈ;C

23/4°Ê·Æ±ì¥HÄÜ\$ó¶K¹í¹³~Àj]§÷½è¶K¹íx, ~Àj^æµwÁés÷½è¶K¹í©w;ìxè®x;C

ÄÜ\$ó³o“ÇÈ±N·|ÄÜ\$ó©w, q¶K¹í¹³~Ä·½æ¶ì; m;C **1w³]È²**Ä|X Direct3D æ³W®æ;C |³“Ç³nÁé¥i~à·|-
n“D; b\$O³B©w, q¶K¹í¹³~Ä·½;C |p²G«·s©w, q¶K¹í¹³~Ä·½;A«h;¹ÄbÄ³¥íµ{;iæ¹/4v¹³«~½è±N·|´£æÉ;C
±z¥i¥H“í¥í·Æ´í±±“í; b¶K¹í¹³~Ä¥æw“æ»Pææ¥;ì; mæ\$¶i;½Ö³/4ã¶K¹í¹³~Ä·½;C

®e³\ NVIDIA 1[š1³B²z, Ę, m;]; b1[š1¥d¥»"-
|w, Ę²ºO¾4ĐÁé¥H¥~; ^¥R¥÷\$Q¥í«ü©w²º"t²í°O¾4ĐÁé®e¶q\$@-°\$÷½è!sÀx¾4¹;C
³Æμù;G ¥i¹w`d¥í©ó\$÷½èÀx!s¾4¹²º³!xj"t²í°O¾4ĐÁé®e¶q;A-O@Ú¾4Ú±z¹q, £xW!w, Ę²º¹éÁé RAM
®e¶q"Óp²â²º;C "t²í RAM ¶Vxj;A±z¥i¥H³]©w²ºĚ'N¶Vxj;C
|¹³]©w¥u¾4A¥í©ó PCI 1[š1¥[³t¥d;]©Í!;b PCI -Ú®e¹¼Ò!;xU°đ!æ²º AGP 1[š1¥d;^;C

«ü©w|b Direct3D 𐄂𐄂!p|ó³B²z;u««²½|P"Bi v;C

- ©I²xÃö³-;C |b Direct3D À³¥Íμ{;𐄂𐄂Á`-O°±¥Í««²½|P"Bi C
- «ö·Ó¹w³]ÈÃö³-;C °£«DÀ³¥Íμ{;|©ú½Tn"°D±Ò¥Í;u««²½|P"Bi v;A§_«h¥;±N«O«ù°±¥Íª-ºA;C
- «ö·Ó¹w³]È¶}±Ö;C °£«DÀ³¥Íμ{;|©ú½Tn"°D°±¥Í««²½|P"Bi A§_«h¥;±N«O«ù±Ò¥Íª-ºA;C

·í°±¥î;u««²½!P“B;v®É;A“î¹î§î³B²z³/4¹³B²z¹î®Øα§«e CPU ˆà°÷·Ç³Æ²²îî®Ø¼⁄Æ¥Ø;C

³Æμù;G |b-Y“Ç±;²pαU;A®e³\

²²¹w¥ýμÛ;â²²îî®Ø¼⁄Æ¶V;h;A;^À³·n±;B¹CÀ,¥x©ÍÁä½Lμ¥,Ë,m²²;u;éαj©μ½w;v´N¶Vα[;C
|p²G±z;b²±¹CÀ,®É;A³s±μ;Û±z¹q,£²²;éαj,Ë,m¹³©úÅä;^À³©μ½w²²²{¶H;A½Ð°§C!¹È;C

°±¥í¬Y"Ç CPU "ï¥í²º¼W±j«ü¥ÜÅX°Êµ{;;æä´©;C

¬Y"Ç CPU æä´©²¥¥[²º 3D «ü¥Ü;A³o"Ç«ü¥O¥i»²§U NVIDIA ¹Ï§¹B²z,Ë,m"Ã§iµ½ 3D
¹CÀ, ©ÍÅ³¥íµ{;;²º@Ä`à;C |¹;ï¥µ¥i¥í"Ó°±¥íÅX°Êµ{;;æ¹;³o"Ç²¥¥[²º 3D «ü¥O²ºæä
´©;A³o¹ï¥i;ææñ,û©Í¬G»Û±Æ°£®É«Û;³¥í;C

© e³\ÅX°Êµ{;;¶×¥X¥ßÅé¹³~À©æ;;;A¥H«K OpenGL À³¥íµ{;;"ï¥í¥ßÅé¥\`à"Ã±Ò¥í¥ßÅé³¼B¥úÃè;C

© e³\ÅX°Êμ{!;¶×¥X«Å|¹³-À®æ!;jA¥H«K OpenGL À³¥îμ{!;¨ï¥í«Å|¥\`à;C

Ⓜe³\ OpenGL ÅX°Êμ{;i;¥H-Û!P²ºÅã¥Ü³/4¹, Ñ²R«xπÀ°tπ@Ó!±½w½Ä°Ï»Pπ@Ó²`«x½w½Ä°Ï;C

- |p²G±Ö¥!;j|@Öz!i^!¹z!¶μ;A«Ø¥β;h«μøμ;²º OpenGL Å³¥!μ{;i;|
§ó!³@Ä!a"Í¥!¼v¹³ºO¾4ÐÄé"Ä"Í@Ä~àÄãμÚ§!μ½;C
- |p²G°±¥!;j"ú@ø@Öz!i^!¹z!¶μ;AOpenGL ÅX°Êμ{;i;±N·|¬°Å³¥!μ{;i;«Ø¥β²º"Óμøμ;πÀ°tπ@Ó!-
±½w½Ä°Ï»Pπ@Ó²`«x½w½Ä°Ï;C

¬°¿ï©w²º OpenGL À³¥íμ{!;³]©w³ì"í³]©wÈ;C
«öæ@æU²M³ææè¶ôæW²º½bÀY¥HÅã¥ÜÀ³¥íμ{!;²M³æ;AμM«á¿ï"úæ@ÓÀ³¥íμ{!;C

¥i\$PÂ_→O§_À³|b OpenGL À³¥íμ{|;ææ;A«ö·Ó¹w³]È“í¥í~S©w|â±m²`«x²º§÷½è¶K¹í;C

- “í¥í@â±|â±m²`«xÁ`→O“í¥í Windows @â±¥Ø«e¥¿|b°õ|æ²º|â±m²`«x²º§÷½è¶K¹í;C
- μL½x±z²º@â±³]©wÈ→°|ó;A©I²x“í¥í 16 bpp »P©I²x“í¥í 32 bpp ¿í¶μ³£·|
±j“í¥í«ü©w²º|â±m²`«x²º§÷½è¶K¹í;C

¥i\$PÂ_¥í©ó¥p¿Ã¹õ OpenGL À³¥íμ{||;ªº½w½Ä°íÄ½¶¼Ò!||;C ¥i¥H¿i³¼Ü°í¶¶¶¿é (block transfer)
æè||©í!Ü°Ê¿i"ú (auto-select);C
!Ü°Ê¿i"ú®e³\ÅX°Êμ{||;®Ú³¼ÚμwÅé²ÕºA"Ó¿i³¼Ü³ì"íæè||;C

«ü©w|b OpenGL ꝠꝠ!p|ó³B²z;u««²½|P"Bi v;C

- ©I²xÃö³-;C |b OpenGL À³¥Íμ{;ꝠꝠÁ`-O°±¥Í««²½|P"Bi C
- «ö·Ó¹w³]ÈÃö³-;C °£«DÀ³¥Íμ{; ©ú½Tn" D±Ò¥Íu««²½|P"Bi v;A§_«h¥;±N«O«ù°±¥Íª-ºA;C
- «ö·Ó¹w³]È¶}±Ö;C °£«DÀ³¥Íμ{; ©ú½Tn" D°±¥Í««²½|P"Bi A§_«h¥;±N«O«ù±Ò¥Íª-ºA;C

«öæ@æU¥H±N¥Ø«e²⁰³]©wÈÀx|s¬°!Ûq;u½Õ¾ãÈ;v;A,Ó½Õ¾ãÈÀH«á·|·s¼W!Û¬Û¾F²M³æ;C
|b\$ä"ì`S©w OpenGL À³¥Îμ{;|;²º³ì"î³]©wÈæ\$«á;A½Ð±N³]©wÈÀx|s¬°!Ûq½Õ¾ãÈ;C³o¼È±z
´N¥i¥H|b±Ò°ÈÀ³¥Îμ{;|;æ\$«e"³³t²ÕºA OpenGL;A!ÓμL.»Ý³væ@³]©w"Óó;î!μ;C

$2^{3/4} \cdot \hat{E} \cdot \mathbb{A} \pm i \mathbb{H}^{1/2} \tilde{O}^{3/4} \tilde{a} \ddot{z} i \odot w^{\mathbb{a} \circ} \hat{a} \pm m \mathbb{A} W^1 D^{\mathbb{a} \circ} \ll \mathbf{G} \ll x ; B^1 \ddot{i} \mathbb{x} \ddot{n} \ll x \odot \hat{I} \text{Gamma } \hat{E} ; C$

$\{ \hat{a} \pm m, \hat{E} \ddot{z}^3 \} \odot w \hat{E} \ddot{z} i \ddot{z} i \ddot{O} \{ b \mathbb{A} \ddot{a} \ddot{z} \ddot{U}, \hat{E}, m \mathbb{x} W^{1/2} \tilde{O}, \hat{E} \ddot{O} \cdot 1/2 \cdot 1/4 v^{13} \} \gg P \ddot{a} \ddot{z} \acute{e} \mathbb{X} \mathbb{x} \mathbb{S} \mathbb{I} i^{\mathbb{a} \circ} \mathbb{Y} \acute{u} \ll x \otimes t^2 \mathbb{S} ; C$

$\cdot \acute{z} \pm z \ddot{i} \ddot{z} i \cdot 1/4 v^{133} B^2 z \mathbb{A}^3 \mathbb{Y} \acute{\mu} \{ ; i \} \otimes \hat{E} ; A^{1/2} \tilde{O}^{3/4} \tilde{a} \{ \hat{a} \pm m, \hat{E} \ddot{z}^3 \} \odot w -$

$\hat{E} \mathbb{H} \{ b \mathbb{A} \ddot{a} \ddot{z} \ddot{U}, \hat{E}, m \mathbb{x} W \mathbb{S} e^2 \{ \mathbb{X} \mathbb{S} \acute{o} \acute{e} \cdot 1/2 T^{\mathbb{a} \circ} 1/4 v^{13} ; i \} \ddot{O} \{ p \cdot \acute{O} \mathbb{x} \acute{u} ; \hat{I} \hat{a} \pm m \ll^2 \{ ; C$

$\{ \acute{O} \mathbb{Y} B ; A \ll \ddot{U} \{ h \ddot{i} \ddot{z} i \} 3 D \mathbb{Y} [^3 t \mathbb{Y} \backslash \hat{a}^{\mathbb{a} \circ} \mathbb{C} \mathbb{A}, \mu e \pm^3 \mathbb{F} \ll \ddot{U} \cdot t ; A \ll \ddot{U} \mathbb{A} \emptyset - \acute{Y} \pm o^2 M \cdot ; i ; C \} b \odot \acute{O} \{^3 \mathbb{A} W^1 D \mathbb{x} \mathbb{x} 1/4 W \mathbb{Y}$

$[- \acute{U} \{ P^{\mathbb{a} \circ} \ll \mathbf{G} \ll x \odot M ; i \} \odot \hat{I} ; \wedge \text{Gamma } \hat{E} \pm N \mathbb{Y} i \ddot{i}^3 o \ddot{C}^1 \mathbb{C} \mathbb{A}, \mu e \pm \mathbb{S} \acute{o} \ll \mathbf{G} \mathbb{x} \otimes \ddot{C} ; i A \ddot{A} \mathbb{S} \acute{o} \ddot{a} \mathbb{Y} i^{\mathbb{a} \circ} \pm \odot \hat{E} ; C$

«öæ@æU²M³ææè¶ô²²½bÀYæHjï"úæÑ·Æ±ì±±"î²²;â±mÀW¹D;C
±zæiæHæÀŞO©î²;P®É½Ö³¼ă¬õ;â;B²ñ;â©îÅ;âÀW¹D;C

¼Æ;ì«G«x¥iÁý±zšó;n|a±±"î|â±mαÀÂ±»P±j«x;A±q!Ó"ï©Ò!³À³¥íμ{|;αα²º¼v¹³šó«GÄR~Â²b;C
"í¥í·Æ±ì"Ó³]©w¥HαUα£!P²º;u¼Æ;ì«G«x;vμ¥~Å;R Äö³~;B\$C;Bααμ¥;B°²©M³ìαj

!â±m!±½u^{²²}îšîÄã¥Ü;C !±½u±N·|!b±z½Ö¾ä¹¡ñ«x;B«G«x©î÷²;È®ÉSY®ÉÄÜ\$ó;C

|p²G·Qn|bαUα@Ó Windows ¨î¥î¥¬¬q;]|p-
«·s±Ò°Ê¹q, f«á; ^|Û°Ê®M¥Í©Ò°μ²²;â±m½Ö¾ã;A½D±Ò¥Í¹¿îμ;C
³Æμù;G |p²G±z²²¹q, f»P²δ, δ³s½u;A«h¨t²Î±N·|;b±zμnαJ Windows «á½Ö¾ã;â±m;C

ÅäÿÜæwÀx|s²q|ûq|â±m³]©wÈ²M³æ;C
Yn±Ò°Ê³]©wÈ;A½D±q²M³æææ¿í"úæ@Ó¶µæØ;C

«öæ@æU¥H±N¥Ø«e²º!â±m³]©wÈÀx!s¬º!Ûq³]©wÈ;C Àx!s²º³]©wÈÀH«á·|·s¼4W!Û-Û³4F²M³æ;C

«öæ@æU¥H\$R°£¥Ø«e|b²M³æææjï©w²º!â±m!Ûq³]©wÈ;C

«öæ@æU¥H±N©Ò;³!â±mÈÁÙì-°µwÁé²²¹¼t³]©wÈ;C

±N;u NVIDIA ³]©wÈ;v¹ÏÛ·s¼W;Ü Windows µu\$@;C;C

- |¹ÏÛÏÏiÅý±z³z¹Lµ@Óµè«K²²¼u¥X;ij¥\`à²í;AÀp¶;§Ö³t©M¥Í¥ó;ó;Ûq²² Direct3D;BOpenGL ©Î;â±m³]©wÈ;C

- |¹¥\`à²íÁÛ¥]st¥Í©óÁÛ¹w³]È»P;S`úÁâ¥Û³¼¹µ²©e¹j,Ûµè¶ô²²¶µ¥Ø;C

«ö@U¥H;í ú@ÓíÿÜ;A¥H;b Windows u\$@!Cæ¥N³;u NVIDIA ³]©wÈ;væ½¥íμ{!;C

1. ±q²M³ææç;¼Ü±znÅãÿÜ²²íÿÜ;C
2. μM«á«ö@U@M¥í¥H§ó·su\$@!Cæ²²íÿÜ;C

ÂÇÑ±N nView ²@eĵīμ·s¼W;Ü®à±¥\`à²í;A¥H«K±Ò¥í;unView ®à±²zû;v;C

¥Í·Æ¹«¥kÁä«ö¤@¤U®à±;AμM«á«ö¤@¤U nView ²@e¥HÅã¥Ü nView Desktop Manager;]nView ®à±²z-
û;^²@e±²O;C

|b±Ò¥í±Ò¥í@à±ºP²zûj¶µξ«á;A«öæ@æU¥H¶}±Ò;unView ®à±ºP²zû;væº®e±ºO;C
;unView ®à±ºP²zû;væº®e±ºO¥í¥í“Ó¬º³ææ@©M;h«®à±æíÅã¥Ü¾¼¹;]ºÊµø¾¼¹;^³]©w;UºØ;u®à±ºP²z-
û;væ\`à;C

3o"Çjïµ®e³\±z"Mcw¼v¹³;b¥HŞC©ó³ì°²ää´©,Ñ²R«x"ï¥í®É;A©ó¥±Åä¥Ü³¼¹κW²ºÅä¥Ü;ì,m;C

½Ð`îŕî½bÀY«öŕs½Õ³¼ãºÊµø³¼¹κW²º@à±Åã¥Ü;ì,m;C

«öæ@æU¥H®Ú¾¼Ú¥Ø«e²º,Ñ²R«x»PŞó·s²v;A±N®à±«³]!Ü¨ä¹w³]!ì,m;C

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«öæ@æU¥H«ü¥X¥Ø«e¥Í©ó¹qμø¿é¥X^{æø}®æ!;©M°ê§O³]©wÈ;C

«ö@U¥H¶}±ò@Óî,Ü@Ø;A±z¥i|b"ä«ü©wˆS©w¹qμø¿é¥X®æ!;;C

|¹²M³æ®e³\±z®Ú¾Ú!Ûπv©Ò©~|í²⁰ê®aj]a°|i^"Óz"ú¹qμø¿é¥X®æ!j;C

³Æμù;G |p²G±z©Ò|b²⁰ê®aj]a°|i^"S|³C|b²M³æππ;A½Đz"úÁ+|Ûπv©Ò|b|a°|í³|ñ²⁰ê®aj]a°|i^;C

«öæ@æUæè!VÁä`Ó½Ö¾ã¹qμøæWæº@à±ÁäæÛ;ì,m;C

³Æμù;G |p²G¹qμøμe±;]½Ö¾ã¹L«x|ÓæX²{ÁäæÛÁø¶Ä©î²ÁæÖæº°ÝÄD;A«h½Dμæ«Ý 10 -íÁÁ;C μe±·|
|Û°Êæð|^`ä¹w³];ì,m;A±z\$Yæi«·s¶i|æ½Ö¾ã¹C æ¿½T©w;ì@à±æ\$«á;Aæ²¶·;b 10
-íÁÁæº«öæ@æU@M¶î¶HÄx;s,Ó³]©wÊ;C

«öæ@æU¥H®Ú¾¼Ú¥Ø«e²º,Ñ²R«x;A±N®à±«³]!Ü¨ä;b¹qμøæW²º¹w³]!ì,m;C

23/4°Ê·Æ±i¥H1/2Ö3/4đ1qμø1/4v13a0«G«xjC

23/4°Ê·Æ±i¥H1/2Ö3/4đ1qμø1/4v13a01iãñ«x;C

23/4°Ê·Æ±i¥H1/2Ö3/4ă1qμø1/4v13a0jâ±m1j©M«xjC

2¾°Ê·Æ±ì¥H½Ö¾ãñ®M¥î!Ü¹qμø°T,¹ºº°{Ã{¹LÂομ{«×¡C

³Æμù¡G ¡b“ï¥îμwÁé,Ñ½X¾¹“Ó¼½©ñ DVD ¹q¼v®É¡A«ØÄ³§¹¥pÃö³¬°{Ã{¹LÂο¡C

½Ð"ïŕ³o"Ç±±"îĩŕµ"Ó½Õ¾äÄäŕÜ,Ë,mj]ºÊµø¾¹;^ºº¼v¹³©Î DVD ¼¼½©ñºº«~½è;C
±zŕiŕHæÀŞO±±"î«G«x;B¹ĩæñ«x;B;â-Ûæ¹;©M«x;AŕH«K;b±z¹q,£æW¼¼½©ñ¼v¹³©Î DVD
¹q¼v®ÉÀð"ú³î"îºº¼v¹³«~½è;C

½Ö¼ã NVIDIA ¹î³B²z,Ë,m²º©Ö¼ß©M°O¼ÐÁé©É⁻ßÅW²v¡C

©w NVIDIA iſſi³B²z, È, m²º®Ö¼ß®É³t«x¡C

¥H|Ê,U»®¯÷¬°³æ;ì"Ó²í¥Ü¥Dn®É¯ß³t«×;C

³]©w¹ĩšf¥dαW²ººO¾⁄ΔÁέα¶±α\$®É⁻β³t«x;C

¥H|Ê,U»® ÷ ñ°³æ;ì"Ó²í¥Ü°O¾DÁéπ¶±²º®É³t«×;C

|b®M¥Í«e;A¥ý'ú_Ö·s®É~BÀW²v³]©wÈ²ºÃ©w©Ê;C

³Æμù;G ±z¥²¶·¹i¥ô|ó»P»s³y¼t°Ó¹w³]Èæ£|P²º·s³]©wÈ¶i;æ'ú_Ö;AμM«áæ~¥i¥H±Næ\$¥Áæ[®M¥Í;C

½T«O`Cα@! , ±Ò°Ê Windows ®É±N·|;Û°Ê®M¥î¹;®É`ΒΑW²v©Ò°μ²º¥ò;óÅÛ§ó;C

³Æμù;G ¥i¥H;b±Ò°Ê Windows ®É«ö;í **Ctrl** Áä;A¥H«K;b±Ò°Ê¹Lμ{αα,δ¹L;Û°Ê®É`Β³]©wÈ;C
|p²G¹q, £»Pºδ, δ³s½u;A½D;bμnπJ Windows «á¥β§Y«ö;í **Ctrl** Áä;C

«³]©Ò|³®Éˆβ½Ö¾ä¥\`à;A`Ã;byi¥H«·s±ò°Ê±±`î¥§«e±j`î«·s°»´ú¹Ï§ÎµwÁé;C

³Æµù;G «ØÄ³±z`C|,`îÏî¥w§ó·s²º BIOS ¼v¹³`Ó§Ö°{§ó·s¹Ï§Îµ±¥d²º BIOS «á;A´N°ö;æ¥@|,«³]¾P§@;C

nView ¼Đ•Ç-Ox@ºØ³æx@Åã¥Ü¼Ò!;C !p²G¥u!³x@ÓÅã¥Ü,Ë,m³s±µ!Ü±z²º NVIDIA
¹İš¹³B²z,Ë,m¹İš¹¥d;A½Đ"İ¥İ¹¼Ò!;C

nView ½Æ»s¼Ò;·|;b|,nÅã¥Ü,Ë,m¼WÅã¥Ü»P¥DnÅã¥Ü¾¼¹º¼v¹³¼@¼Ò@¼ËººÆ¥»|C

nView xôŶÂX®i¼Ò!j¥i¥î"Ó±N Windows ®à±xôŶÂX®i;Ü"âÓÃãŶÜ,Ë,mxW;C |b;¼¼Ò!j;mx
jA"â¥xÃãŶÜ¾¼±N²Õ;X;"x@Ó¼e´T²²ÂX®iÃãŶÜ²¡±
jA³o|bÀËμø¼e«x;xj©ó³æx@ÃãŶÜ¾¼¹²²¶μ¥Ø®É«Ü;³¥î;C

nView ««²½ÂX®i¼Ò;ÿiÿî´Ó±N Windows ®à±««²½ÂX®i;Û´âÓÃãÿÛ,Ë,mæW;C ;b;¹¼Ò;ææ
;A´âÿxÃãÿÛ¾¼¹±N²Õ;X;´æ@Ó°æææ;BÂX®iææÃãÿÛ±
;A³o;bÀËµø°æ«xæj©ó³ææ@ÃãÿÛ¾¼¹ææµÿØ®É«Û;³ÿî;C

«ö@U¥H±N¥Ø«e²º¥p´º±½´yì,mÂê©w!b½Æ»s¼Ò!;!nÅãÛ¼¹W;C

³o¼Ë¥iÅý±z!³@Ä!a±NμêÀÀ®à±áμ²!b-YÓ!;m;A³o¹i©óÂ²³Ø©î²{À³¥íμ{!;¥±±N«Ü!³¥í;C

Ynġĩ"únÁY©ñ²º¼v¹³¿Ã¹ð°ĵ°ĩ;A½Đ«öæ@æUæææß©Î½bÀY¹ĩÏÜ;C
¿ĩ©wæš«á;AÏĩÏH²³⁄⁴°ÊæUæè²º.Æ±ĩ"ÓÁY©ñ¹¹³;Ï÷¿Ã¹ð;C

2³/₄°Ê·Æ±ì¥H«K©ñxj©ÍÁYαp¼v¹³¹/₄½©ñ¿Ã¹õ²⁰¿i©w³¡¥÷¡C

«ö@U²M³æè¶ô²²½bÀY;AµM«á@Ú¾Ú·Qn;bp@ÓÅãÿÜ¾¹æ§æW¥H¥p¿Ã¹ð¼Ò;¼½©ñ¼v¹³;A¿ĩ"ú¥D-
nÅãÿÜ¾¹©Î; nÅãÿÜ¾¹;C Yn°±¥Ï¥p¿Ã¹ð¼Ò;¼½A½Đ¿ĩ"ú°±¥Ï;C

±j"î«Å|³nÅé"ï¥î¶×¬y±Æ¥D±±¥\`à;C

³Æμù;G «ØÄ³±zæ£n®Öçî¹çî¶μ;A°£«D±z¹j"î³Äö¼v¹³¼½©ñ²º°ÝÄD;A"Ò;p¼v¹³.ı.´©Î§¹¥βμL¼v¹³;C

j]°Êμø¾¹Ãþ«¬j^Åä¥Ü»Pzi©w²º¹ï§î¥[³t¥d°t;X``ïî²ººÊμø¾¹Ãþ«¬jC

«öæ@æU¥HÅã¥Ü;¹ºÊµø¾¹ºº,Ë,m»PÅX°Êµ{!;æº®e;C

|C¥X|¹Äã¥Û¾¼¹¥í¥îªº§ó·s²v¡C ,ûºªªº¿Ä¹õ§ó·sÀW²v¥íº§C¿Ä¹õº{Ä{¡C

«ü©w;Ã¹õ§ó·sÀW²vπU²²M³æ-O§_¥]-A°Êμø³/4¹π£πä´©²²¹/4Ò!;C
æ`·N;R çï³/4Ûπ£³/4A¥Í©óÅã¥Û³/4¹²²¹/4Ò!;¥i`à·|³/4ÉPÄY«²²Åã¥Û°ÝÃD;A`·|·´μwÅé;C

±N±z!bκWκèjī©w¹ÏÛ©Ò-ÛÀ³²ºÅãÛ³/4¹«ü©w-°ÏDnÅãÛ³/4¹;C
|b±z±Ò°Ê¹q,£®É;AÏDÅãÛ³/4¹κW·|ÏX²{μnζý¹i,Ûκè¶ô;C @Ú³/4Ú¹w³];A|b±z²i,±Nμ{;¶¶}
±Ò®Éκj|h³/4ÆÈ³Ïμ{;μøμ;³£·|ÏX²{|bÏDnÅãÛ³/4¹κ§κW;C ÏDnÅãÛ³/4¹¹;©M®à±²ºÏÏ²κW¨κ;C

ÅãÿÜ©Ò!³ÿØ«e²º nView ÅãÿÜ³/4¹;C !p²G³s±µæF|hÓ,Ë,m"ÃæwæÁ'«!Ü«D¼Ð·Ç¼Ò!;;AÿiÿHj"ú-
n°µ¬°ÿØ«eÅãÿÜ³/4¹²ºÅãÿÜ³/4¹;C

æ]ÿiÿH«öæ@æUæW±²ººÊµø³/4¹¹/4v¹³ÿHj"i©wÿ!°µ¬°ÿØ«e²ºÅãÿÜ³/4¹;C

«ö¥HαU¥H³]©w©îÄÜşó»P¥Ø«eÅã¥Ü³/4¹©Ò·î¥î²º¿é¥X,Ë,m¬ÛÃö²º³]©wÈ;C

«ö@U¥H°»´ú»P¹îſî¥d¬Û³s²²©Ò³Åã¥Û,Ë,m;C

³Æμù;G |p²G|b¶|}±Ò±±“î¥xα§«á³s±μ¥F¥ô;óÅã¥Û³/4¹;A½D“î¥î!¹¥\`à;C

!p²G±z±N°Êμø³/4!;]Äã¥Ü,Ë,m;^³s±μ;Ü!,Äã¥Ü³s±μ³/4!;ý¥¹/4³Q°»´ú";A¹/2D®Ö;î!¹æè¶!ô;C
³o!î©óÄÄ!;Äã¥Ü³/4¹©Î!î¶! BNC ³s±μ³/4¹¶!;æ³s±μ²ºÄã¥Ü³/4¹«Ü!³¥!;C

«öæ@æU¥H!s`ú NVIDIA 1í§î³B²z,Ë,mªªp¥[¥\`à;C

«ö@U¥H|s´ú NVIDIA ¢¢¢¢ ,;A¥HÀò±o NVIDIA ¹î§î³B²z,Ë,m¢¢¢}·s,ê°T»PÅX°Êµ{!;C

¡¹,ê°T,Ô²Ó»¡©úF¥Ø«e¿¡©wªª NVIDIA ¹¡§¡³B²z,Ë,mªªµwÁé~S©Ê¡C

!1,ê°T,Ô²Ó»j©úxƒˆˆt²îxƒxîˆà·¼vÅTÁ`Áé¹jſî®Äˆàººjï©w³j¥÷jC

NVIDIA 1jŝî³B²z,Ë,m©Ò¥îººÀÉ® x²M³æ;A¥]¬A¨ä»¡©ú©Mº©¥»_ê°T¡C

·|°±¥Í 3D À³¥Íμ{|;αα²ºαİ ÷¾;¥·Æ³B²z¥\~à;C

³Æμù;G |p²G±z»ÝnÀò±oÀ³¥Íμ{|;²º³|º²ºδ;æ@Ä~à;A½D±Ò¥Í!¹;İ!μ;C

¥iÁý±z“Ï¥í 2x ¼Ò!j¶!ææí¿÷¾!¥·Æ³B²z;C

³Æμù;G ¥|¥i¥H´£°ª 3D À³¥íμ{!jææªª¼v¹³μe½zè»P°ð!æ@Ä-à;C

±Ò¥Î NVIDIA GeForce 1İŞİ³B²z, Ę, m ¨t;Cσσ©Ò´£¨Ñªºκİ÷¾¼ı¥·Æ³B²z±MŞQŞP³N;C

³Æμù;G Quincunx κİ÷¾¼ı¥·Æ³B²z¥ı´£¨Ñ, ûºCªº 4x κİ÷¾¼ı¥·Æ³B²z¼Ö!;κŞ«~½è;A!Ö¨ä@ÄªG»P, ûŞÖªº 2x
¼Ö!;¬Û@tμL´X;C

±Ò¥í 4x ¼Ò;í;í;ææí;÷¼;¥·Æ³B²z;C

³Æμù;G ¥;¥;¥H;|b 3D À³¥íμ{;ææ²£¥í§ó"í²º¼v¹³μe½è;A;ý«o·|°§C¬YºØμ{«x²ººõ|æ®Ä-à;C

±Ò¥Í 4xS ¼Ò;¶i;ææÍ¿÷¾¼¥·Æ³B²z;C |¹¼Ò;¶i;¶i;b 3D À³¥Íμ{;¶æ²£¥Íæñ 4x ¼Ò;¶i;§ó"Íæº¼v¹³μe½è;A;ý·|
μy·L°§C 3D À³¥Íμ{;¶æºδ;æ@Ä`à;C

³Æμù;G |¹³]©w¥u·|¼vÅT Direct3D À³¥Íμ{;¶i;C |b°δ;æ OpenGL À³¥Íμ{;¶i;@É;AOpenGL ±N"Í¥ÍæUæ@-
Ó¥;ææºæÍ¿÷¾¼¥·Æ³B²z³]©w —} "Ò;¶i;AæñæWz 6x ³]©wÈ°ææ@`Åæº¿i¶μ³]©wÈ;C

·|-°ä´©äĭ÷¾!Ÿ·Æ³B²z²º 3D À³Ÿ{μ{!;!Û°Ê±ÒŸî³!~!æÆæĭ÷¾!Ÿ·Æ³B²z³]©wÈ;C

® e³\±z¥Hκâ°Êªºκè!;ζĩ ú;b°δ!æ 3D À³¥îμ{!; ® Én`ĩ¥îªºκĩζ÷¾!¥·Æ³B²z¼Ò!;C

ÅäÿÜ!³Ãö¹q.£xxÿØ«e²º AGP ³]©wÈ,ê°T;C

¥Hαâ°Êααè|;ζĩ"ú¹ĩ§ĩα|"t²í©Ò¥íαα AGP ³t²v;C

³Æμù;G |pαGμLαk½T©wn"ĩ¥íαα AGP ³t²v;A½DαÁ@Öζĩ¹@Öζĩαè¶δ;C "t²í±N·|;Ú°Ê"Μ©w³|"íαα AGP
³t²v;C

23/4 °Ê·Æ±ì¥H«K¥Hαâ °Êººæè;¿ĩ ú¹j§ĩæĩ t²ĩ ©Ò¥ĩºº AGP ³t²v;C

ξῖ ῡΆΧ°Êμ{;°p²z±q ῖt²î°O¾ΔΆέκκκÀ°tψX ῖÓ²º¼v¹³ºO¾ΔΆέ²ºκè²k;C

«ü©w»P¥Ø«e¹ï©Ø½w½Ä°ï¼ò; «ü©wªºæèªk°t!X¨ï¥íæ§¨t²î°O¾¼ÐÁé®e¶q;C

NVIDIA PowerMizer ʘ\`àʘiʘíʘ Ó½Ö¾ă¹ĩŝî³B²z,Ē,m²º-Ó¹qŋq;C

±zʘiʘH³J©w³iʘj-Ű¹qŋqʘH,`-Ű¹q;À¹qʘO;A©Îġiʘ³iº²@Ā-ăʘHʘRʘʘ-μo´ŝ NVIDIA
¹ĩŝî³B²z¾¹²º¹İŝî®Ā-à;C

® e³ \ Windows ± N ¨ ä ; h « ç é ¥ X ¥ \ ¯ à ºº 1 î š î ¥ d µ ø ¯ ° Ó § O ; w , Ë ; b ¨ ¨ t º î º º º º ç W ¥ ß º 1 î š î ¥ d ; C

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Ó Å ä ¥ Ü , Ë , m ç ¨ ¨ ú ç W ¥ ß º º , Ñ º R « x © M ; j © Í ; ^ | â ± m ² ` « x ; C

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³Æμù;G ¥u;³;b¹±²OæW±Ò¥Í²Áæ@Ó²M³ææè¶ô²º;u±Ò¥Í¥|«½w½Ä¥ßÁé API;v;¶¶μ@É;A¹«ö¶sæ~¥i¥;C

±Ò°É OpenGL ²²²²«Å|;C

→Y`ÇÀ³¥íμ{;i;j]`Ö;p Softimage3D; ^»Ýn«Å|¥±;C °£²F¥;±`²²;â±m (RGB) ½w½Ä°í¥~;A«Å|¥-
±ÅÜ¥í¥í\$@½Ö;â²²²í±;C 1ÿ©ó;W¥²²² 3D ¼v¹³¥»`i];p¥\`à²í»P`â¼4Ð; ^²\$«Å|Ã,»s°í°;A«Å|→O`S\$O;³¥í²²;C
16 ;i²,»P 32 ;i²,;!â±m¼Ö; ;\$;²â´©«Å|;C

³Æμù;G OpenGL ¥²²²»P«Å|μL²k;P@É`í¥í;C «Å|»Ý-
nÃB¥~²²²¼÷, ü¹í\$í°O³¼ÐÁé;A¥B¥í`àμL²k;b©Ö;³, Ñ²R«x²U`í¥í;C ;p²G;b;s`ú«Å|¥\`à@É1`ì°ÝÃD;A¥í`àn-
°\$C, Ñ²R«x©í;â±m²`«x;C

NVIDIA ÅX°Êμ{;ä´©|h°Ø¥ßÅέμwÅέ;C ;p²G±z¨ΐΐ«D¹w³]²º¥ßÅέμwÅέ;A½D;b²M³ææèηôææ
ζi³¼ÜÅã¥Ü¼Öi;C

“iŕi»«^a½ŕæ¿ù°Êμø³/₄¹jR |p^aG±zϣw±N;Û°ÊŕβÅéŕ±ÅãŕÛ³/₄¹³s±μ;Û¹ŕŕŕd;A½D±Òŕŕ¹¿iŕμ;C

“İİİ¼ ÷ ü DIN ³s±µ¾¹;R |p²G¹İİİd” ä³π«Ø 3 °w DIN ³s±µ¾¹;A½D±Öİİ¹;İİµ;C
³o@É;AµL»Ý;p¥ßÅé¹İİÀèπù©Ö²p±a²º” ä¥Lπİ±¥d;C ¥i¥H”İİİ 3 °w DIN
³s±µ¾¹½±µ±N¥ô!ó¥ßÅéµwÅé³s±µ!Ü¹İİİd;C

U@μLkÀÈμø¥βÁé@ÄG;A½Djï¼Ü!¹jïμ¥H¥æ´«¥²¼»P¥k°¼²¼v¹³;C

Æμù;G Ɂ@ ¯ëɁW;A±z¥i¯à¥u»Ý|b««²¼¥æ¿ùÀã¥Ü¾¹ɁW"Ã³B©ó³Q°Ê¼Ö;|®É±Ö°Ê¹;ïïμ;C

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

°ö;æ 3D À³¥íμ{;i "Ã¥B±Ò¥íαĩç ÷¾4|¥·Æ³B²z¥\`à®É;A¥i"ĩ§÷½èÂA©úαÆ;C ³o!³§U©ó§iμ½¼v¹³μe½è;C

23/4 °Ê·Æ±ì¥H³]©w®M¥Í; b§÷½èα§αW²º«D§;½è¹LÂo²ºμ{«×;C ³ìº²²º³]©wÊ¥i¥H²£
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±j"î°»´ú»P¹îšî¥d-Û³s²¹qμø³/₄÷;AŞY"İ±±"î±²O"Ã¥¼Åã¥Ü¥Ø«eæw³s±μ¥ô;ó¹qμø³/₄÷æ´±j"î°ð;æ|¹°»´ú;C
;p²G-Û³s²¹S©w¹qμø³/₄÷«¬"S;³¥¿½T;a,üæj«H,¹;ÓÅý¹îšî¥d°»´ú"î¥;²²;S;B;A;¹¿î¶μæQæÀ;³¥î;C

Yn±Ò¥î¹qμø³]©wÈ;R

1. «öæ@æU@Ö¿iæè¶ô;C
2. ³Q´£¥Ü@É«·s±Ò°Ê¹q,£;C μnæj"t²îæ§«ásY¥i"î¥î¹qμø±±"î¿î¶μ;C

u^{3/4}V;v→O;u¹w³]v²⁰@à±¼Ò!;C

¡uÁa;Vjv¥i¥H"Īμε±±ŪÂà 90 «x¡C

¡uãî¼îV¡v¶i¶H“Īµε±±ŪÂà 180 «×¡C

¡uãĀa|V;v¥i¥H“Īμε±±ŪÂà 270 «×;C

¥i¥H"ï¥í|V¥k (->) Áä" Ó°ð;æUæèº±ÙÀà;ï¶µ;C ©í¶|¶]
¥i¥H«öæ@æU¥kæW"æººj±Ù½bÅY;A¥H©;V±ÙÀàæè|Væ§æè;ï"Ó°ð;æ±ÙÀà;C

¶i¶H“ï¶í|V¶ª (->) Áä“Ó°õ|æαUαèªª±ÚÂà¿ï¶μ;C

±Ò¥Î¬ÛÃö OpenGL ^{-3/4}z¹X|ì|æ¬°;C

¡u\$÷½è¹X|ì|v¬O«ü|p|ó|b¶W¥X\$÷½è¥»Åé®É³B²z\$÷½è®y^{1/4}Đ;C
¥i±N\$÷½è®y^{1/4}Đ¹X"î|b^{1/4}v¹³Ää½t©î^{1/4}v¹³¶\$¶°;C

±N±z¬°¥DnÅã¥Û³/4¹κW²º¹/4v¹³«Å|©Ò«ü©w²º±ÛÀà«x¹/4Æ³sµ²|Û|,nÅã¥Û³/4¹;C³o²i¥Û±z|bNVRotate -
±²OκWζi³/4Û²º±ÛÀà«x;A·|;P®Éκĩ-M;ib¥Dnκĩ|,nÅã¥Û,Ë,mκW;C

ÁY©ñ±±î¿ïµ¥í¥H©ñ±j'yÃ, «²{²º¼v¹³;C

«öæ@æUæU©Ô;¡¥\`à²¡«öï§¥H¿ï"únÁY©ñ²ºÄã¥Ü³/4¹;C

- ¼v¹³Äè@g¥í¥H³]©wn!b"äæW'yÃ, «²{¼v¹³Äè@g²º¡, nÄã¥Ü³/4¹²ºÁY©ñ¿ï"ú;C
- ¼v¹³«Ä|¥í¥H³]©wn!b"äæW'yÃ, «²{«Ä|¼v¹³²º¥DnÄã¥Ü³/4¹²ºÁY©ñ¿ï"ú;C
- "âÓ±N"âºØÁY©ñ¿ï"ú©M¥í!Ün;b"äæW'yÃ, «²{¼v¹³²º¥Dnæí!, nÄã¥Ü³/4¹;C

±Ò¥Í;u¼ö«x;v«ü¥Ü;OÄμ§i"i,Üæè¶δ;C

·í;uNVIDIA ³Í§¹B²z,Ë,m®Öæß·Å«x;vË»P;u®Öæß´í²CÁ{-ÉË;v-Ú²Å®É;A;u¼ö«x«ü¥Ü;O;v¹i,Üæè¶δ·|
|Ú°Ê¥X²{;A»;©ú-°æF³¼æí¹"t²íææ¥δ|ó-S©w²²¹í§¹B²z,Ë,m³y|·l®`!Ó±Ä"úæFb"Ç!æ°Ê»P"BAË;C

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“İ NVIDIA İŞİ³B²z,Ē,m³t«x´İ°C¥HŞK¹L¼ö²º¼ÆÈ;C

·İ¼¼ÆÈ»P NVIDIA İŞİ³B²z,Ē,m;u@Öß·Å«xÉ;v-Û²Å¥B-

±²O±W±Ö¥İ±F;u±Ö¥İ¼ö«x«ü¥Û;OÅµŞi;v;İµ®É;A·|;Û°Ê¥X²{±@Óİ,Û±è¶ô;AÄµŞi;¹ºØ±

İ³p“Ã»j©ú©Ö±Ä“ú²º;æ°Ê©M“BÆJ;A¥H±F“³¼±İ¥İ“à²£¥İ¹L¼ö“Å¥B¹İ“t²İ±±

¥ôİó“S©w²ºİŞİ³B²z,Ē,m³yİ“²º.l@`İC

ÅãÛü"tî!«½LααÛØ«e²º;uNVIDIA ¹İİ³B²z,Ë,m®Öαß·Å«x;v;C

!^_ê°T»j©ú"t?Í¤¤»PAGP -ÚÃöºº¥\`àjC

¥»_`»j©ú¹q,£¥D³/4÷²O´¹xù²Õ²º»s³y°Ó|WºÙ¥Hxí AGP ¥\`àjC

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¥» `·sz` t²îæ¹ê»Ú¥i`Ñ`î¥í²º AGP ¥\`à;C ©Ò;C²º¶µ¥Ø-O«ü`º`Ç¥D³/4+²O´¹æù²Õ¥Hæî NVIDIA
¹İİ³B²z,Ē,m±`´f²º AGP ¥\`à;C

|¹³]©wÈÿiÁý±z¥Hαâ°Ê²⁰αè|;½Ö¾ã¥í"Ó¾p§@1í§ÿd²⁰³ìxj AGP ³t²v;C

³Æμù;G |p²G±N³]©wÈ½Ö¾ã±oαñ¾A¥í©ó~S©w"t²í²⁰;w¥p²Ö²A³t²vÁÛ§Ö²⁰Ü;A¥í-à|í"t²íÁÜ±oαfÃ-
©w;C

® Öðð;¹æè¶ò¥H±Ò¥í AGP §Ö³t¼g¶¶ (FW);C

® Öœβ;¹æè¶|ò¥H±Ò¥í AGP Ãä±a©w§} (SBA)¡C

® Öæβ;¹æè¶ò¥H±Ò¥í 2D «ü¥O§Ö´´ú¹/₂w¹/₂Ä;C

!zĩµ¥i¥î"Ó±±"ĩ¥i|î|C³³³«Ý³B²z³³ AGP ¶x-y±Æ³³³|²j¼Æ¥ØjC

¿í"ú!¿íμ¥H"í"t?í¿í"ú³í"í³]©wÈ;A°μ-°í³«Ý³B²z²º AGP ¶x¬y±Æ²º³ì¼j¼Æ¥Ø;C

ğĩ"ú!ğĩμ¥H«ü©w!³«Ý³B²z²º AGP ¶x-y±Æ²º³}æj¼Æ¥Ø;C

«öæ@æU¥H'ú_Ö!±²OæW«ü©w²º AGP ²ÖºA;C !¹'ú_Ö¥i¥H" M©w¿i©w²º³]©wÈ-OS_·|!bÃ©w©Î®Ä-àæè-
±³y!""¥ô!ó²ººÝÄD;C

$2^{3/4} \cdot \hat{E}_i^{1 \cdot A \pm i} \cdot \hat{O}^3 \cdot \text{w} \ll D \delta_i \cdot \frac{1}{2} \hat{e}^1 L \hat{A} o^{\hat{a} o} \mu \{ \ll \times \forall H \delta_i \mu^{1/2} \cdot \frac{1}{4} v^{13 \hat{a} o} \mu e^{1/2} \hat{e}_i C \pm \hat{O} \forall i^1 \cdot \hat{z} \hat{i} \hat{\mu} \pm N \cdot | | b' \hat{E}^{\hat{a} 1/4} v^{13} \mu e^{1/2} \hat{e}^{\hat{a} o} | P \hat{O} \hat{E} - \hat{o} \hat{s} C \hat{O} \hat{A} \hat{a}_i C$

- $\hat{A} \hat{o}^3 \rightarrow \hat{o} \pm \forall \hat{i} \ll D \delta_i \cdot \frac{1}{2} \hat{e}^1 L \hat{A} o \forall \hat{a}_i C$
- $1x_i | 1 \hat{z}^3 t_i \hat{e}^2 \hat{E} \forall i^3 \hat{o}^{\hat{a} \hat{a} \hat{o} \hat{o}} \hat{o}_i \hat{a} \hat{O} \hat{A} \hat{a}_i C$
- $2x_i | 2 \hat{z}^3 t_i \hat{e}^{\pm N \cdot | | b' \hat{E}^{\hat{a} 1/4} v^{13} \mu e^{1/2} \hat{e}^{\hat{a} o} | P \hat{O} \hat{E} \hat{o} \hat{s} C \hat{o} \hat{a}_i \hat{O} \hat{A} \hat{a}_i C$
- $4x_i | 4 \hat{z}^3 t_i \hat{e}^{\pm N \cdot | | b' \hat{E}^{\hat{a} 1/4} v^{13} \mu e^{1/2} \hat{e}^{\hat{a} o} | P \hat{O} \hat{E} \hat{o} \hat{s} C \hat{o} \hat{a}_i \hat{O} \hat{A} \hat{a}_i C$
- $8x_i | 8 \hat{z}^3 t_i \hat{e}^2 \hat{E} \forall i^3 \hat{i}^{\hat{a} o} \cdot \frac{1}{4} v^{13} \mu e^{1/2} \hat{e}_i C$

$^3 \hat{E} \mu \hat{u}_i G \rightarrow Y \hat{z} \hat{i} \hat{\mu} \forall i \hat{a} \cdot | \forall \hat{N} \hat{O} \hat{o} \mu w \hat{A} \hat{e} \hat{i} \hat{O} \mu L \hat{e} k \hat{i} \hat{\mu} \hat{i}_i C \cdot \frac{1}{2} \hat{D} \hat{o} \hat{N} \hat{z} \hat{4} \backslash N V I D I A \hat{i} \hat{\mu} \hat{i} \hat{u} \ll n \mu \mu \hat{a} \hat{o} \hat{O} \hat{O} \hat{e} \hat{o} T_i C$

© e³\ Direct3D À³¥îµ{; ;ĩ ú;Ûxv²º«·s¾ã²z³t²v;C æUæè²º²M³ææè¶îô·||b±Ò¥î¹; ;ĩ¶µ®É³Q°±¥î;C

© e³\ÅX°Êµ{; ; ú¶N Direct3D À³¶íµ{; ;ªº«·s¾ã²z³t²v;C ¢Uæèªª²M³ææè¶ò·||b±Ò¶í;¹;¿í¶µ®É³Q±Ò¶í;C

12M3æxè¶ô¥i¶í" ÓxÀ\$O" ú¥N" Cx@ºØ, Ñ²R«x²º«·s³/4ã²z³t²v;C

1w³]È²í¥Ü" ¶í²º- OÀ³¥íµ{;i²º«·s³/4ã²z³t²v;C " ä¥L¥ô;óÈ«h²í¥Ü±N\$ó·s²v³]©w-º¥p¿Ä¹õ Direct3D
À³¥íµ{;i²ºÈ;C

Yn" ú¥N«·s³/4ã²z³t²v

1. ±q;u«·s³/4ã²z³t²v;vÄæx;A;bst;³·QnÅÜ\$ó" ä\$ó·s³t²v²º, Ñ²R«x, Ó;æxW;A«öx@xU1w³]È³oÓ;r²' ;C
±N·|¥X²{x@Ó¼/ÆÈ²M³æxè¶ô;C
2. ¿i" úx@Ó«·s³/4ã²z³t²v" Ä¥B«öx@xU@M¥í;C

© ħπj°²ÀW²v²²π²© e¥H«K`İ¼v¹³με½èÂA© úπÆ;C

½Ö¼ä¹q!À»P®Ä`àx\$¶|;ºº-Ô¹î-Ó¹q¶q;C

½Õ¾ã¥æ¬y¹q·½»P®Ä~à¤§¶¶;ºº¬Ô¹ĩ¬Ó¹q¶¶q;C

¥Ø«e³Q`ï¥î²º¹q·½jC

¥Ø«e»P®Ä~àx\$¶i^{ao}-Û¹¹q¥iC

¥Ø«e²⁰¹q;À¥R¹q¶q;C

“İŸİ;u¹qμø;Ã¹õxjxp;v·Æ±İ;A±N·Æ±İ²³⁴“İ½Ö³⁴ã¹qμø;Ã¹õxjxp²ºμŸ~Å;C Á|
“Ò“Ó»İ;A;p³G;b¹qμø;Ã¹õxW~Ý“İŸĀ;â²ºĀä®Ø;A«KŸİ“İŸİ¹±²Ÿb“Ó©ñxj¹qμø;Ã¹õxH±NŸĀ®Ø²³⁴°£;C
³Æμù;G ³İŸkĀä²º³]©w;]Ÿâ·Æ±İ²³⁴“İ³İŸkĀä;^~O³İ³⁴A;X©óÆ[½à DVD ²º³]©wÈ;C

ju^{1/4}Æjì«G«x;v¥i¥í"Ó±±"î!â±m±ÀÀ÷©M^{1/4}v¹³±K«x;A²F¥í§ó©ú«G²M'.æ^{1/4}v¹³1/4^{1/2}©ñµe^{1/2}è;C

¬YÇ¹q¼v;]¼v¹³;^|b¼½©ñ@É¥i⁻à·|Åǎ±o_û©ü·t;C ¥i¥H¼W¥[Gamma È¥H½Ö«G¼v¹³;C

¥»±²O´£¨Ñ«Ø¥ß»P¨İ¥İ|ÛqÅã¥Û¾¹,Ñ²R«x²ºjİ¶µ;C

«öæ@æU¥H±N¿éæ¼¼Ò!;½s¿è°í°æ!Ûq¼¼Ò!;s¼¼W!Û!u!Ûq¼¼Ò!;v²M³æ;C

«öæ@æU¥H×§i¥Ø«e;biu;Ûq¼Ò;ijv²M³æææ©Ò¿i©w²µ¥Ø;C

«ö@U¥H²³/₄°£¥Ø«e!b;u!Ûq!¼Ò!;iv²M³ææ©Ò;ï©w²⁰¶µ¥Ø;C

® Ö; i; 1æè¶ô¥H“İn; b; i; ©w²ºÅã¥Ü¾¹κW³]©w²º¼Ö; ; xp©ó¶Ç²î²º Windows ®à±¼Ö; ; i; C ³o«Ü¥i~à·|
“İÅã¥Ü¾¹²ºÆ[-Ý°İ°i-Ý°_“Ó³QÁY©ñ¹L©İ-O²µµÜ®à±¥²³¼; A; ¹²{¶H±NµøÓŞOÅã¥Ü¾¹²º¥~à; Ö; ³©Ò²£; P; C

½Ö¾ä;ÛqÅã¥Û¾¹¼Ò;ªº;uπδ¥πØπo;v;]©Ï¼e«xªº¹³~À¼Æ¥Ø;^;C

½Ö¾ä;ÛqÅã¥Û¾¼¼Ö;ªº;u««ª½xØπo;v;]©îª«xªº¹³~À¼Æ¥Ø;^;C

½Ö¾än!ÚqªªÅã¥Ü¼Ö!ªªªª½ªª·s¾ã²z³t²v;C

½Ö¾ä;ÛqÅãÿÛ¼Ò;ªºÅãÿÛ;â±m¼ÆÿØ;JÿçºÛ¬º bpp ©ÏˆC¹³ˆÀ;ÿ,;i^;C

¿í"ú→YºØ¼Đ·Ç WindowsÅã¥Û¾¼¼Ò!;¥H\$@→º¼Ò!;½s¿è°İªº°_Â!;C

!C¥X¥Ø«e¥i¥í²º!ÛqÅã¥Ü¾¹¼Øi;C

|C¥X¥Ø«e¥i¥í²ºÅã¥Ü³/4¹¹/4Ò¡¡;A¡¹¹/4Ò¡¡¥i¥H¡b»P¿¡©w²ºÅã¥Ü³/4¹³Ãö²º~S©wÅã¥Ü_Ë_m¥\$¥W³]©w¡C
¡¹²M³æ¥u¥]St¥i¥H¹ê»Ú;b¡¹Åã¥Ü_Ë_m¥WÅã¥Ü²º¹/4Ò¡¡;A¡Ó¥B¹/4Ò¡¡¥Ø¥o¥í~à·¥ñn;b¡uWindows
Åã¥Ü³/4¹²º®e³]©wË;v±²O¥¥³]©w²º¹/4Ò¡¡¥Ø¥o¥p¡C

®Öæß!¹æè¶ó¥H±Ò¶ÍÆ[½à¹qμø¼v¹³æº®e²º³]“î³]©wÊ;C

½Ö¾äºù«ù¥Ø«e²ø¼eπñ²ººÊμø¾¹p®É;C

ÄäÿÜ ClearView ÄäÿÜ¾¼¹²ÖºAºº¹ÿÿîÿNºí;C «ö@U"Ã©ì;²ºÊµø¾¼¹¼v¹³ÿH«·s±Æ;CÄäÿÜ¶¶ÿÇ;C

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

§ 1 x 2

§ 1 x 3

§ 1 x 4

§ 2 x 2

§ 2 x 1

§ 3 x 1

§ 4 x 1

ζĩ´ú±N°μ→°³β;nÄãÿÜ¾¹²ºÄãÿÜ¾¹;C ³β;n²ºÄãÿÜ¾¹ÿiÿH´ĩÿi;u³β;n²ºÄãÿÜ¾¹şó·s;v±²¶bÀH©Éμø»Ý-
nşó·s;C

¥í·Æ¹«¨Ó¿í"ú³ß;n²ºÄã¥Ü¾⁴¹;C ¥Ø«e·Æ¹«©Ò©ñ;ì,m²ºÄã¥Ü¾⁴¹±N³Qμ∅¬°¥í°μ§ó·s¥Ø²º²º³ß;n²ºÄã¥Ü¾⁴¹;C

“İŸİ;±²Ÿb“Ó«ü©w³ß;n²ºÄãŸÜ¾¹–Û,û©ó«D³ß;n²ºÄãŸÜ¾¹º§ó·s,¼Æ;C

§ 1x;]³æ¿³t;^²İŸÜ³ß;n²ºÄãŸÜ¾¹“CÓ`^ÀôŸg´ÁŸu§ó·sæ@;ıC

§ 2x;]2 ¿³t;^²İŸÜ³ß;n²ºÄãŸÜ¾¹“CÓ`^ÀôŸg´Á§ó·s`â;ıA;Ó«D³ß;n²ºÄãŸÜ¾¹«h“CÓ`^ÀôŸg´ÁŸu§ó·sæ@;ıC

§ 3x;]3 ¿³t;^²İŸÜ³ß;n²ºÄãŸÜ¾¹“CÓ`^ÀôŸg´Á§ó·sæT;ıC

!³\$U©ó¿ï"úxU¡C²º@ÉÄÁ³]©wÈ;G

§ ¥u¼vÅT 2D À³¥Îµ{¡;²º¼Ð·Ç (2D) ¿ï¶µ;A©Îâ

§ ¥u¼vÅT 3D À³¥Îµ{¡;²º@Ä`à (3D) ¿ï¶µ;C

¿ï"ú;u®Ä`à;v®É`ß³]©wÈ¥ï" M©w 3D À³¥îμ{!;²º°ö!æ³t«×!³!h\$Ö;C

¿ĩ úıu¼Đ·Çıv®Éˆ ß³]©wÈ¥ı̄M©w 2D À³¥ı̄μ{ı̄ı̄²ººöı̄æ³t«xı̄ı̄³ı̄hŞÖı̄C

“M©w!¹®É¹©ó”t²î;Ó“¥³;w¥p²º³]xj®É⁻β³]©wÈ;C ¹³B”M©w²º³]xj®É⁻β³]©wÈ·|;|«áÄð²ºº;ð;æ;Ó¹³©Òx
£!P;Ax]»Ýμø”t²î³B²z!Û°Ê°»´úÀ£xO´ú, Ö²º±;ap;Ó©w;C

³\¶i!b;uÂX®i;v¼Ò!;¤¤«Ø¥ß«Â|;C ;]-Y“Ç“t²î;b±Ò¶î;uÂX®i;v¼Ò!;®ÉµL²k³B²z«Ø¥ß«Â|
;F!¹;î¶µ¶iÂý±z©è³⁄P,ÓºØ“î;C;^

Y±N;11j°v1jŝi«öxU;A·|“¼u¥X;¡;¥\`à²f°ú«ù¶}}±ò²²²→°A;C;p²G©ñ¶}}1j°v;A¼u¥X;¡;¥\`à²f·||Û°ÊÄö³¬;F;Ó·í±
±“î±²Oμøμ;¥ç¥hμjÂl®É«h·|¥’¶}};C

Áý±z¥Hxâ°Êxè;j¬°«ü©w²ºÄä¥Ü,Ë,mzĩ"ú¥p´º±½´y,Ñ²R«x;C |p³Gzĩ"ú¥p´º±½´y,Ñ²R«x;AÅX°Êµ{|i:|
ºÉ¥ĩ-à¥H«ü©w²º,Ñ²R«x¶iixj¥p´º±½´y;C

³Æµù;G |b«·s±Ò°Ê"t²îx§«e;A!¹³]©wË·|ºû«ù!³@Ä;C

·í°Êμø³/4¹;]Åã¥Û,Ë,m;^æä'©¥»³/4÷±ÛÀà®É®Özi!¹æè¶ô;C

³Æμù;G |p²GÅã¥Û,Ë,mæfæä'©¥»³/4÷±ÛÀà;A"º»ò®Özi!¹æè¶ô±N·|°±¥Í±ÛÀà¥\`à;C

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® Öjî¹æè¶ô¥H±Ò¥Î;uÂù«±½´y;v;C

§ ;uÂù«±½´y;v·|ÅãμÛ;a§îμ½§C, ÑªR«×ªª¼v¹³me½è;A¹î©ó¥þ¿Ã¹ð¼v¹³©Î¹q, £¹CÀ, !Ó´¥³ì!³§Q;C

§ ;uÂù«±½´y;v»ÝnÂù¿ªªªÊμø³¼¹ÅW¼e;C |pªG´´Î¥Î, ûªªªª, ÑªR«×ªª¼§ó·s³t²v;AÅXªÊμ{|;||bÂù«±½´yªª¼Ò;¶¶W¥XªÊμø³¼¹´î®É;ÛªÊÁÛîªª¼Ð·Ç¼Ò;¶¶C

¥iÁy±z!b©Ò!³ää´©²²!â±m²`«xαU·s¼Wα§!Ûq¼Ò!;αf¥uα@ºØ;C

¥iÁy±z!b©Ò!³ä´©²²«·s³/4ã²z³t²vαU·s¼Wα§!Ûq¼Ò!;α£¥uα@²Ø;C

ÄäÿÜ°Êμø³/4¹;]ÄäÿÜ,Ë,m;^ÿíÿí²º;Ã¹ö,Ñ²R«×³]©wÈ;C ²³/4°Ê·Æ±ìÿH¿ï úα£|P²º¿Ã¹ö,Ñ²R«×;C

ÄäÿÜ°Êµø³/4¹;]ÄäÿÜ, Ë, m; ^ÿØ«e;ï©w²º¿Ã¹ö, Ñ²R«x²²ÿiÿí²º;â±m³]©wË;C «ö²@²U±±“íÿH¿i“ú²
£|P²º;â±m³]©wË;C

¡C¥X©Òμoφί"Ã¥B³Q,Ë,mÃX°Êμ{¡¡μnπ]º~S@í NVIDIA ³[šî³B²z,Ë,m"Æ¥ó¡C π]
¥i¥H¥î"Æ¥ó°O¿ýÀÉÀËμøμ{¡¡"Ó-d→Ý³o"Ç"Æ¥ó¡C

«ü©w|b OpenGL ɹɹŷí©ó«Á|²º¹³~À®æ|;i;C

- |â±m©w~Û«Á| (8bpp);G ˆİŷí 8 |ìɹ, ½Ö|â«Á|;C
- RGB «Á|;|RGB555 ®æ|;i; ^;i;G ˆİŷí 16 |ìɹ, (RGB555) «Á|;C
- |â±m©w~Û (8bpp) ©M RGB555 ®æ|;i;G ®e³\À³ŷíμ{;i; ˆİŷí 8 |ìɹ, ½Ö|â©Í 16 |ìɹ, (RGB555) «Á|;C
³/Eμù;G «Á|»ÝnÃBŷ~²º³/4÷, ü¹|ší°O³/4ÐÁé;AŷBŷí~àμL²k|b©Ò|³, Ñ²R«xɹUˆİŷí;C |p²G|b|sˆú«Á|ŷ\
ˆà®É¹Jˆì°ÝÁD;Aŷí~àn°šC, Ñ²R«x©Í|â±m²ˆ«x;C

±Ò¥Í Gamma ®Õ¥¿ Ö×¥¿¿÷¼¥¢~u½u±ø;C ¬°¥¶¶½u±øµÛâ®É;AGamma ®Õ¥¿²º¶¿¿÷¼½u±ø·|
|Ò¼{`¿é¥X,Ë,m!â±mÅâ¥Û¥\`à²ºÅÛ¼Æ;C

±Ò¥í!""t²î¥H°µ-°¥D""t²î;C ±Ò¥í!;¿ï¶µ®É;A¹î§îÅã¥Ü¥d·|¥í""Ó°µ-°¥í!""î®ØÂé©w;P""B«H,¹²³¥Dn¥¶±¥d;C

κWκÉ½t;C ±Òϕί¹ζι¶μ®É;A³íϕÜ·|¨íϕκWκÉ½t¨Ó°»´ύ|P¨B«H,¹;C

αU°½t;C ±Ò¥í!¿íμ®É;Aq¥Ü·í¥íαU°½t`Ó°»'ύ|P`B«H,¹;C

!P" B©μζδi]·L¬í; ^ Y|b¥D¼Ò!; ¢¢; A!; j"¶μ·|«ü©w;]¥H·L¬í¬°³æ; i; ^!ï®ØÂê©w¥d; b¥í!; "P" B¬β½Ä«eÀ³μ¥-
Ô²º®É¶i; C

§ó·s³t²v;]»® ÷ j ^;C Y|b¥D¼Ò!;¤¤;A→O«ü¹îſîÄã¥Ü¥d¥í!„¿é¥X;P“B¯B½Äªº³t²v;]¥H»® ÷ ¬º³æ!; j ^;C

!P" B»P³s±μ²-ºA¹îšî·|Åã¥Ü¹î®ØÂê©w¥d¥Ø«e²º²-ºA;C

- |P" B 'Nºü"ãÁé»;©úxF¿é¥X;ÛNVIDIA ¹îšî³B²z,Ë,m²º;P" B«H,¹;C
- ¥æ'«'Nºü«ü©w;|b¥î"Ó±Nμâ²áÁìxW²º©Ò;³¹îšî³B²z,Ë,m;P" BxÆ²º NVIDIA ¹îšî³B²z,Ë,mx\$î;¶Ç°e²º«H,¹;C
- p®É;P" B;îx, -O«ü³z¹L¹î®ØÂê©w³s±μ°ð²ºp®É;P" B;C
- ¥BÁéÁn;P" B"ãÁé»;©úxF;ÛVGA ¹îšî¥d¶Ç"Ó²º;P" B«H,¹;C|p²G" S;³¥i¥î²º¹î®ØÂê©w©î¥~"Ó¼v¹³;P" B;A«h"î¥î¹;P" B¼Ò;î;C
- ¿éxj¹î®ØÂê©w;P" B²º;éxj³s±μ³/4¹;C
- ¿é¥X"ãÁé»;©úxF¹î®ØÂê©w;P" B²º;é¥X³s±μ³/4¹;C
- ¥~"Ó¼v¹³;P" B"ãÁé»;©úxF¥Ñ BNC ³s±μ³/4¹±μ;¹-²º;P" B«H,¹;C

«öæ@æU¥H¬d,ß;P" Bzi¶µ" Å½T»{³s½u¬O§_¥¿±`¡C "Ã·|Åã¥Üµ²ªG¥Hæî¥Ø«eªªª¬ªA;C

«öæ@æU¥H°ö;ææ@³s|é²ºæº³;´ú,Ö;A¥H«K®Ö·Ç¹İşî¥[³t¥d;A"ú±o³ì"İæÆ²ºµe±;P"³]©wÈ;C "Ã·|
Åã¥Üµ²ºG¥Hæî¥Ø«e²º²→ºA;C

«ö@U¥Hšä¥X-ÛÃöººÊµø¾¹;]Åä¥Ü,Ë,m;^;C

® Ú¾Ú\$Æ±æÿîð@ÓÃäÿÜ¾¹"ÓÆ[-Ý«Å|¾¼v¹³;A«öð@æU²M³ææè¶ô²º½bÀY"Ó¿ï"újuÿDn;v©Îju|,-
n;vÃäÿÜ¾¹;C

“İŸİ;1;İ”µ”Ó;İ”úŸİ”ÓĂăŸÜ®à±ººĂăŸÜ¾4¹°t¹İ;C ²Ăæ@ÓİŸÜŸN²İŸDnĂăŸÜ¾4¹;AİÓ²ĂæGÓİŸÜ«hŸN²İİ,-
nĂăŸÜ¾4¹;C ³ºæ@Ÿ÷²M³æ»İ©úŸİŸHİP®É”İŸİºº©Òİ³ĂăŸÜ¾4¹°t¹İ;C

±Ò¥í;uæô¥ÂX©;i;v©Í;u««²½ÂX©;i;v¼Ò;í;æ¾4í_ó nViewÅãÛ¼¹²º;u©à±«Á|;v;C |b;uÂX©;i;v¼Ò;í;æ
æ"í¥í;h«ÅãÛ¼¹"Óc!""ææ@©à±®É;A!¹¿í¶µ"íæ@³;¥÷²ºÅãÛ¼¹¼v¹³²uµÛ¼FñÅãÛ¼¹²ºÅã½t-
«ÂÐÅãÛ¼;C

«ü©w!b;uκó¥ÂX®i;v¼Ò!;κκ"ï¥î;u®à±«Â|;v©É;An«Â|²ºκó¥¹³~À¼Æ¥Ø;C

«ü©w!b;u««²½ÂX®i;v¼Ò!;¤¤`ï¥!;u®à±«Á|;v®É;An«Á|²º««²½¹³`À¼Æ¥Ø;C

±Ò¥í¼í,ó;u\$ë¼v¾÷;vÅã¥Ü¾¼¹²º;u\$ë@g²V|X;v;C ¹;¿;í;µ;¥;í;¥;í;©;ó,ÉÀv±N;h«\$ë¼v¾÷,Ë,m²º;é¥X¤¬¬Û-
«Å|¥Hºc;³æ¤@µLÁ_²ºÅã¥Ü¾¼¹¼v¹³@É¥X²{²º¥ú«xÁt¹³;C

Yn¿i"ú\$Æ±æ¥]\$t;b;u\$ë©g²V;X;vα^{αα}Ää¥Ü³/4¹Ää½t;A«öα@αU;Ã¹ö¼v¹³Ää½t^{αα}è;VÁä;C

«ü©wκó¥Áä¥Ü³¼¹Ää½t¥í©ó;ušë©g²V!X;vκ^{0a013}-À¼Æ¥Ø;C

«ü©wº¥ÅÜ°I'î;A¥î"Ó¼É¥XªuµÛ²V!Xªº¤ô¥Åã¥ÜÄ½tªº;u¤ô¥©ú«x;ivÈ;C

©ú«x½d³ò;G ¤¶©ó0`ì255 Ó¤§¶;ijC "î¥î¼ÆÈ_û¤jªºº¥ÅÜ°I'î³§U©ó
î¤ÖªuµÛÅã¥Ü¾¼¹Ä½t¥X²{ªº±µÁ_jA"Ä¥BÄ²¤ÆÄã¥Ü¾¼¹®Ö·Ç;A!ý;³¥î`à¼vÄTµe½è;C

«ü©w^aμŪ²V!X^o¥Å^äÛ^¾Ä^½t^º¥Ø^¼Ð©ú«xÈ;C

©ú«x^½d^¾ò;G ¼¶©ó 0 `ì 255 Ó[§]¶;C «ü©w^º¼Æ|r¶V[¶]j;A;b²V;XÄ^½t^º¼v¹³´N¶V«G;C

«ü©wnŸí©ó;uŸë®g²V!Xjv²º««²½ÅăŸÜ¾¹Ää½t¹³⁻À¼ÆŸØ;C

«ü©wº¥ÅÜ°I'î;A¥î"Ó¼É¥XªuµÛ²V!Xªº««ª½Åã¥ÜÃä½tªº;u«ª½©ú«x;vÈ;C

©ú«x½d³ò;G ¤¶©ó 0 "ì 255 Óª§¶;i;C "Ï¥î¼ÆÈ_ûªjªºº¥ÅÜ°I'î;³§U©ó

îªÖªuµÛÅã¥Ü¾¼¹Ãä½t¥X²{ªº±µÁ_;A"Ã¥BÂ²ªÆÅã¥Ü¾¼¹®Ö·Ç;A;ý;³¥î"à¼vÅTµe½è;C

«ü©w^aμŪ²V!X««^a½Äã¥Ū³/₄¹Ää¹/₂t^{a0}¥Ø¹/₄Ð©ú«xÈ;C

©ú«x¹/₂d³ò;G ¼¶©ó 0 "ì 255 Ó¼¶¶ij;C «ü©w^{a0}/₄E|r¶V¼j;A;b²V;XÄä¹/₂t^{a0}/₄v¹³´N¶V«G;C

±Nju®à±«Å|jv»P;ušë®g²V!X;v³]©wÈ±q¹i,Üæè¶ó¶×¥X!ÜÀÉ®×;C

±Nju®à±«Å|jv»P;ušë®g²V!X;v³]©wÈ±qÀÉ®×¤¤¶×¤jA"Ã¥H³o"Ç³]©wÈ"Ó³]©w²i,Ü¤è¶ô;C

±j"ŕ¼v¹³²V|XμŪ!â¾4¹æ' ©;C !pªG!b¿i©wªº¥p¿Ã¹öÅä¥Ū,Ë,mæW-Ýæ£"i¥p¿Ã¹ö¼v¹³;A½Ð¿i"ú!¹¿i¶μ;C

±ÒŸí©í°±Ÿí°ª, ÑªR«x ©à±ÁY©ñ;C ±ÒŸí°ª, ÑªR«x ©à±ÁY©ñŸiŸHšìµ½ ©à±ªª¹/4v¹³µe½è;C

Y|b¥D¼Ò!;ææ;A¬O«ü³z¹L BNC ³s±µ³/4¹±µ!¬¥~³;P“B¥Í!“³/4¹¬β½Äææ³t²v;]¥H»®¬÷¬°³æ;ì; ^;C

Y|b¥D¼Ò!;ææ;A¬O«ü»P¥~³;|P" B¥í! "¾¹¬ÛÃö¾¼v¹³¹¼Ò!;C

Y|b¥D¼Ò!;¤¤;A¬O«ü|b±N|P“Bβ½ÄÄà»¼;Ü±qÄÝ,Ë,mα§«e±μ“üºº¥~³;|P“B¥|“¾¼¹β½Ä¼Æ¥Ø;C

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- Intel® Graphics Driver for Windows 7 and Windows 8.1
- Intel® Graphics Driver for Windows 8.1
- Intel® Graphics Driver for Windows 8.1

→°S©w²ºÀ³¥{;³`îæ¹qμøκW²º¹îšî;C

±N¹İŝİ!b¹qμøW, mαα;C

3 | Îµ/Ε¹ qμø¥H¥Î © 6¼½ © ñ DVD;C

31`îæ/E¹qμø¥H¥í©ó®à±'î§í;C

¥H;Ûq²⁰³]©wÈ±N¹qμø³l`îαÆ;C

®e³\À³¥íμ{!jzĩ üä;Ûxv²º«·s¾ä²z³t²v;C πUæè²º²M³ææè¶ô·||b±Ò¥í¹zĩ¶μ®É³Q°±¥í;C

®e³\ÅX°Êμ{!; ``ú¥NÀ³¥íμ{!;ªº«·s¼ă²z³t²v;C πUæèªº²M³ææè¶ó·||b±Ò¥í!¹¿ï¶μ®É³Q±Ò¥í;C

!12M3æxè¶ô¥i¶í" ÓxÀ\$O" ú¥N" Cx@ºØ, Ñ²R«xºº«·s³/4ã²z³t²v;C

¹w³]È²í¥Ü" ¶í¥º- OÀ³¥íµ{;ºº«·s³/4ã²z³t²v;C " ä¥L¥ô;ó¼/ÆÈ«h²í¥Ü±N\$ó·s³t²v³]©w-ºÀ³¥íµ{;ººÈ;C

Yn" ú¥N«·s³/4ã²z³t²v

1. ±q;u«·s³/4ã²z³t²v;vÄæx¶;A;bst;³·QnÅÜ\$ó" ä\$ó·s³t²vºº, Ñ²R«x, Ó;æxW;A«öx@xU¹w³]È³oÓ;r²';C
±N·|¥X²{x@Ó¼/ÆÈ²M³æxè¶ô;C
2. ¿j" úx@Ó«·s³/4ã²z³t²v" Ä¥B«öx@xU@M¶í;C

·í-YÓ«·s³/4ã²z³t²v³Q" ú¥N¶\$«á;AMicrosoft Windows Áö·|³ø\$;iÄ³¥íµ{;; ©Ö«ü©wºº-
«·s³/4ã²z³t²v;A;ý-OºÈµø³/4;]Äã¥Ü, È, m; ^· ¶í³Q" ú¥Nºº«·s³/4ã²z³t²v;C

«öæ@æU¥H¬d,ß;P" Bzi¶µ" Å½T»{³s½u¬O§_¥¿±`¡C "Ã·|Åã¥Üµ²ªG¥Hæî¥Ø«eªªª¬ªA;C

±Ò¥í!¹¨t²î¥H°µ¬±qÄÝ¨t²î;C ±Ò¥í!¹¨iîµ®É;A³î§îÅã¥Ü¥d·|
¥í¨Ó°µ¬³Q!P¨BæÆ¬³î®ØÂê©w!P¨B«H, ¹²º±qÄÝæî±¥d;C

«ü©w→O§_n¥]stα£¨üÄã¥Ü¾¹αä´©²º¼Ò¡¡¡C

²`·N¡R ¿¡¾Üα£¾A¥Í©óÄã¥Ü¾¹²º¼Ò¡¡¥í`à·¾ÉPÄY«²ºÄã¥Ü°ÝÃD¡A¨Ä·|·´μwÄé¡C

«öæ@æU¥HÅã¥Ü¥Ø«e;ï©w²º;Ã¹õ,Ñ²R«x¥i¥î²º©Ò!³!Ûq¼Ò!;C

ÄäÿÜ°Êµø³/4¹;]ÄäÿÜ,Ë,m;^ÿØ«e¿i©w²º¿Ã¹ö,Ñ²R«xææÿiÿí²º«·s³/4ä²z³t²v;C «öæ@æU!¹¿i¶µÿH¿i´´úæ£;P²º-
«·s³/4ä²z³t²v;C

ÅäÿÜæWæ@!,¹Á,ÖÅÜşó®É²⁰;Ã¹ö,Ñ²R«×;B!â±m©M«·s³/₄ä²z³t²v;C

«ö@U¥H;Û°Ê½Õ¾ä;Ûqº, ÑR«x¼e«x;C ¼e«xÈ¥²¶·¬O 8º;¼Æ;C

«öæ@æU¥H;ï"ú°Êμø³/4¹ªºÃä¥Üp®É¼Ø;ï;R

- |Ů°Ê°»´ú-O¹w³]Ë;A®e³\ Windows æ½±μ±qÃä¥Ü³/4¹¥»"±μ!-¥¿½Tªºp®É,ê°T;C ³Æμù;G
-Y"Ç,ûÂÂªººÊμø³/4¹¥ï-àæ£æä´©|¹¥\`à;C
- æ@`ëp®Éæ½;ï (GTF) -Oæj|h¼Æ·s;ïºÊμø³/4¹æÍÃä¥Ü,Ë,m©Ò"ï¥íªº¼Ð·Ç;C
- Â÷´²ºÊμø³/4¹p®É (DMT) -Oæ@ºØ,ûÂÂªº¼Ð·Ç;A;B-Y"ÇºÊμø³/4¹æææ´μM"ï¥í¹¼Ð·Ç;C
|pªGºÊμø³/4¹©ÍÃä¥Ü,Ë,m»Ýn"ï¥í DMT;A½Ð±Ø¥í|¹¿ïμ;C
- "ó½Õ¼v¹³p®É¼Ð·Ç (CVT) ©ó 2003 |~ 3 æë!"-º VESA ¼Ð·Ç;CCVT ¹ï©ó,ûºª,ÑªR«xªºæä
´©æñ"ä¥Lp®É¼Ð·Ç;ï;C
- ©T©wªº¼ææñp®É±j"íÃä¥Üªº¼v¹³«O«ù|b«ù©w¼Ø;ï;ïÓæ£-OºÊμø³/4¹ªºªºªº¼ææñ;C ³Æμù;G
ÃXºÊμ{;ï¥ï-à·|μø»Ýn!O;BÃä¥Üªº¼v¹³¥|©P©ñ,m¶Ã!âªºÃä®Ø;C

«öæ@æU!VæUAäæH«ü©w¬O§_n®M¥î³o¨Ç!â±m,É¥¿³]©wÈ;C

- **¥p³**¡¥i±N³]©wÈ®M¥î!Ü Windows ®à±©M¼v¹³¼¹²©ñ;C
- **®à±**¥i±N³o¨Ç!â±m,É¥¿³]©wÈ®M¥î!Ü Windows ®à±;C
- **«Å|VMR** ¥i¥îæ@Ó«Å!±N³o¨Ç!â±m,É¥¿³]©wÈ®M¥î!Ü¼v¹³¼¹²©ñ;C
- **¥p¿**Ã¹õ¼v¹³¥i±N³o¨Ç!â±m,É¥¿³]©wÈ®M¥î!Ü¥p¿Ã¹õ¼v¹³¼¹²©ñ;C

«ö@U!VUÁäHj"ú·Æ±ì©!±½u±±"iÂ!©Ò¼vÂTº!â±mÀW¹D;C
¥i¥HÀŞO½Õ¾ã-ô!â;Bºñ!â©MÂ!âÀW¹D©!P®É½Õ¾ã!X!"ÀW¹D;C

¡â±m,É¥¿!±½u²⁰¹¡š¡Áã¥Ü;C ¿éπJÈ·|²uμŪ X ¶bÁã¥Ü;A;Ó½Ö¾ã²⁰¿é¥XÈ«h²uμŪ Y ¶bÁã¥Ü;C ¾Æ;rÈ·|
Áã¥Ü;|b¾F²⁰ñ²⁰½s¿èπè¶¶;C

- |b¾D·C¾O;¡π¾Ö¾ã;u¹¡ñ«×;v;B;u«G«×;v©Î;uGamma È;v·Æ±ì®É;A;¡±½u·|
ÀHμŪ½Ö¾ã;Ó°È°AAÜšó;C
- |b¶i¶¥¾O;¡π;A¥i¥í·Æ¹«©ì²±±“îÁ;A;|b½s¿èπè¶¶ÁÜšó¾ÆÈ;A©Î-O“î¥íπè;VÁã“Ó¹ê®É×¥
¿ì;¡±½u;C ¥i¥H²uμŪ;±½u«öπ@πU·Æ¹«¥²Áã©ÎÁ£πU Insert Áã“Ó’;πJÁB¥~²⁰±±“îÁ;C ¥i¥H±N±
±“îÁ©ìÁ÷Áã®Ø©Î“î¥í Delete Áã“Ó²¾°£±±“îÁ;A“Á¥B¥i¥H“î¥í©ì²¿¾Ü©M Shift xí Control -
×šíÁã“Ó;í“ú;hÓ±±“îÁ;C
- |b ICC ³]©wÁÉ¾O;¡π·|Áã¥Ü±q ICC ³]©wÁÉ,üπ²⁰¡â±m,É¥¿!±½u;C
“î¥í±M·~²⁰¥X²©Á³¥íμ{;¡;A®U¾Ü ICC ³]©wÁÉ²⁰,ê°T“Ó°ò;æ°t;âπu\$@;C

ÅäÿÜÿØ«e²⁰·Æ¹«;ì,m©î!±½u¹ïææ²⁰±±“îÂ!²⁰¿éæJÈ;C

ÅäÿÜø«e²⁰Æ¹«;ì,m©î!±½u¹ïææ²⁰±±“îÂ!²º;éÿXÈ;C

«öæ@æU¥H«ü©wn“í¥íæ° ICC ³]©wÀÉæ°ÀÉ® x¡WºÙ¡C

«öæ@æU¥H`ÀôæÁ'«¿Ã¹õ¥\`àæí½s¿è;C

±Ò¥Í¿Ã¹õ¥\`à²í½s¿è©É¥iÃã¥ÜÁôÃÃ²º¿Ã¹õ²M³æ¿C

¡b¥ó;ó Direct3D À³¥íμ{;¡W"ï¥í;u«Á|iv®É§Ç¹í;C

í¹¹¡í·|Ãã¥Ü" Cx@Ó'yÃ, xaxº¹í@Ø;BÃX°Êμ{;¡¬;°Ê¥Hxí¹í§í³B²z, Ę, mºº³B²z¹Lμ{ ©Òááºº®É¶;¡C
"Ã¥B·|«ùÃò§ó·s¹¡í¥HÃã¥Ü³·sºº 256 Ó¹í@Øºº®É§Ç;C

®É§Ç·|"·ÓxU;C¥ñxW;ÜxUºº¼Đ°O;]C¬í¹í@Ø¼¼E;^ªuμÜ««º½¶b¥[¥H'ú¶q;R

- 100 (10 fps)
- **75 (13 fps)**
- **50 (20 fps)**
- **25 (40 fps)**
- 0;]μL;^

¥HÃC;á" Ó°íxÃ¥|ººx£;P³B²zμ{§Çºº®É§Ç;R

- ¶Ã;ãªí¥Ü'yÃ, íí@ØººÁ`®É¶;¡
- ¬õ;ãªí¥ÜÃX°Êμ{;¡©Òááºº®É¶;¡
- ÃÃ;ãªí¥ÜÃX°Êμ{;¡μ¥Ó NVIDIA íí§í³B²z, Ę, mºº®É¶;¡
- ºñ;ãªí¥Ü¹í§í³B²z, Ę, mºº¶ç, m®É¶;¡;C

|b;u|ø²A³/4¹jv³/4Ò!;xx;A!¹z!¶μ·|±N¥~±μ|PˆB²£¥í³/4¹¶ÇˆÓ²º«H,¹μø¬°¥æ¿ù!;«H,¹;C |PˆBˆB³/2Ä·|
|b°,³/4ÆÅã¥ÜÄæ!;xx²£¥!;C

|b;u|ø²A³⁴¹;v¼Ò;ππ;A³o→O«ü¹İſİÄãÿÜÿdÿÍ;”ğéÿX;P”B”B½Ä²º«·s¾ă²z³t²v;]ÿH»®”÷→³æ;ì;^;C
|b;uÿİπáºÿ;v¼Ò;ππ;A½Đ;İ”ú;Ů°ÊÿH«üÿÜ¹İſİÿd;Ů°ÊÊ©w;Û³]ñ²ºşó·s³t²v;A©İÿHπâ°Ê²ºæè;ÿpÅv±
±”İ”Ä«ü©wπ@Óşó·s³t²v;C

!P" B»P³s±μ²→°A¹íſî·|Áä¥Ü¹í®ØÂê©w¥d¥Ø«e²²²→°A;C

- |P" B' N°ü→O«ü¹íſî³B²z,Ë,m¶Ç¥X²²¿¿é¥X|P" B«H,¹;C
- p®É;P" B;¡x,→O«ü³z¹L¹í®ØÂê©w³s±μ°ð²²²p®É;P" B;C
- ¥ŒÁéÁn;P" B" äÁé»¡©úx F;Û VGA
¹íſî¥d¶Ç" Ó²²;P" B«H,¹;C;p²G" S;³¹í®ØÂê©w©í¥~" Ó¼v¹³;P" B;A«h" íſî¹;P" B¼Ö;¡;C
- ¿éxj→O«üſí©ó¹í®ØÂê©w;P" BxÆ²²¿¿éxj³s±μ³⁄⁴¹;C
- ¿é¥X→O«üſí©ó¹í®ØÂê©w;P" BxÆ²²¿¿é¥X³s±μ³⁄⁴¹;C
- ¥~" Ó¼v¹³;P" B→O«üſñ BNC ³s±μ³⁄⁴¹±μ;→²²;P" B«H,¹;C

±Ò¥í¹ˆˆt²î¥H°µ-°;ø²A¾⁴¹;C ±Ò¥í¹ˆˆzi¶µ®É;A¹î§î¥d³Q³]©w-°;u¥î¥á°Ý;v;A¥;±Nˆˆî¥í;ì©ó¥t¥@-
Ó¹î§î¥d¥W²º;u;ø²A¾⁴¹;v©Ò²£¥í²º¹î®ØÂê©w;PˆˆB«H,¹

SmartDimmer ¥í¥î`Ó±±`î¼Æ;ìÃã¥Ü¾¼¹;þ`ï¥î¤¤©î¶ç,m®Éº«G«x;A¥H«K,`-ù¹q;À`à¶q;C

±Ò¥í SmartDimmer;C |¹¿íµ¥u`à|b¹q;À¼Ò!;ææ`í¥í;C

½Ö¾ä¼Æ;ìÄäÿÜ¾¹¼§¤Wÿi¨Ñ¨¨ÿí¹º³)¤j«G«xμÿ⁻ Å;C |¹«G«xμÿ⁻ Åÿ;|b±Ò°Ê¨¨t²í®É¨¨ÿí;C

½Ö¾ä¼¼Æ;ìÀäÿÜ¾¼¹¼§¼Wÿi`Ñ`ïÿí²³ì¼p«G«×μÿ~Å;C ı¹«G«×μÿ~Åÿi;¼ıı¼ı, m`tî®É`ïÿí;C

ÄäÿÜ¼Æ;ìÿ±ÄäÿÜ¾¹ÿØ«e²º«G«xμÿ⁻Ä;C

