

±Ò¥ÍÄä½tÁúκ/Ε¼ÒÀÀ;C Direct3D «ü©w¨ ä|³ Direct3D μwÁέ¥[³t¥\¨ à²º NVIDIA  
¹İšİ³B²z, È, 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“î¥îæ£;P²²²`«x½w½Ä³⁄÷“î;A¥H«K²£¥îµe½è,û°²²² 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

±z<sup>20</sup> NVIDIA 1ĩšĩ<sup>3</sup>B<sup>2</sup>z, Ę, m¥i¥H!Ū°Ê<sup>3</sup>B<sup>2</sup>z MIP ¶K<sup>1</sup>ĩ;A¥H´£°<sup>2</sup>¶x¬y±Æ<sup>20</sup>§÷½è¶Ç¿é®Ä<sup>2</sup>v;A<sup>ˆ</sup>Ä  
´£<sup>ˆ</sup>Ń§ó°<sup>220</sup>Ä<sup>3</sup>¥ĩµ{!;®Ä<sup>ˆ</sup>à;C

<sup>3</sup>Æµ<sup>ù</sup>;G ¡ý-O;A; b±Ö°Ê!Ū°Ê<sup>2</sup>£¥ĩ<sup>20</sup> MIP ¶K<sup>1</sup>ĩ®É;A<sup>2</sup>@<sup>ˆ</sup>ÇÄ<sup>3</sup>¥ĩµ{!;¥i<sup>ˆ</sup>àµL<sup>2</sup>k¥¿½TÄ<sup>3</sup>¥Ū;C nšó¥  
¿!°YÄD;A½Đ°§C;Ū°Ê<sup>2</sup>£¥ĩ MIP ¶K<sup>1</sup>ĩµ¥<sup>ˆ</sup>Ä<sup>20</sup>¼Æ¶q;A<sup>2</sup>½<sup>ˆ</sup>ı¼v<sup>13</sup>¥i¥H¥¿½TÄ<sup>3</sup>¥Ū<sup>ˆ</sup>¬°<sup>2</sup>ı;C °§C MIP  
¶K<sup>1</sup>ĩµ¥<sup>ˆ</sup>Ä<sup>20</sup>¼Æ¶q<sup>3</sup>q±`¥i¥H®ø°£§÷½è¶K<sup>1</sup>ĩ<sup>20</sup>2£1i»ô©!;µe±¼<sup>1</sup>µđ;v°YÄD;]!ý-O<sup>3</sup>o¼E<sup>ˆ</sup>«o|°§C®Ä<sup>ˆ</sup>à;^;C

½Ö¾ä MIP ¶K¹î²º;uºë²Ó«x;v(LOD) °¾@tÈ;C

¸û\$C²º¾@tÈ·|´£¨Ñ\$ó;n²º¼v¹³«~½è;A;Ó\_ûº²ºº¾@tÈ«h·|´£æÈ³¥îµ{;²º@Ä-à;C  
±z¥;b³î¨¼v¹³«~½è»P³î¨Ä-àæ\$¶;²ºæÓ¹w³]º¾@tÈææ¶;æj³¼Û;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«e<sup>203</sup>]©wÈ;]¥]-A;u``ä¥L Direct3D;v<sup>1</sup>ï,Üæè[óææ<sup>203</sup>]©wÈ;^Àx|s-°;Ûq;u½Ö¾äÈ;v;C  
Àx|s<sup>203</sup>]©wÈÀH«á·|s¼W!Ü-Û¾F²M³æ;C

|bSä``ì`S©w Direct3D ¹CÀ,æ<sup>203</sup>]``î³]©wÈæ§«á;A½D±N³]©wÈÀx|s-°;Ûq½Ö¾äÈ;A³o¼È±z  
´N¥i;b±Ö°Ê¹CÀ,æ§«e``³³t²Ö<sup>2</sup>A Direct3D;A;ÓµL»ÝæÀ§O³]©w``CÓ;ï¶µ;C

«ö@U¥H\$R°£¥Ø«e|b²M³ææçï©w²º;Ûq³]©wÈ;C

«öæ@æU¥H±N©Ò!³³]©wÈÁÙì-°¹w³]È;C

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

23/4°Ê·Æ±ì¥HÄÜ\$ó¶K¹í¹³~À;]§÷½è¶K¹í¶, ^À;^æµwÁés÷½è¶K¹í©w;ìæè®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\$¶;i½Ö³/4ã¶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“î!îš!³B²z³/4¹³B²z¹î®Øα§«e CPU ˆà°÷·Ç³Æ²²î®Ø¼⁄Æ¥Ø;C

³Æμù;G |b-Y“Ç±;²pαU;A®e³\

²²¹w¥ýμÛ!â²²î®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©úÁä;^À³©μ½w²²²{¶H;A½Ð°§C!¹Ë;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§¹³B²z,Ë,m"Ã§iμ½ 3D  
¹CÀ, ©ÍÅ³¥íμ{;;²º®Ä`à;C |¹;ï¥¥¥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¥βÅé¹³~À©æ;;;A¥H«K OpenGL À³¥íμ{;;"ï¥í¥βÅé¥\`à"Ã±Ò¥í¥βÅé³¼B¥úÃè;C

© e³\ÅX°Êμ{!;¶×¥X«Å|¹³-À®æ!;jA¥H«K OpenGL À³¥íμ{!;¨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¥ß;h«μøμ;²º OpenGL Å³¥!μ{;i;|  
§ó!³@Ä;a"í¥!¼v¹³ºO¾⁄⁄Äé"Ä"í@Ä~àÄãμÚ§!μ½;C
- |p²G°±¥!;j"ú@ø@Öz!i^!¹z!¶μ;AOpenGL ÅX°Êμ{;i;±N·|¬°Å³¥!μ{;i;«Ø¥ß²º"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«e<sup>203</sup>]©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

$2^{3/4} \cdot \hat{E} \cdot \mathbb{A} \pm i \mathbb{H}^{1/2} \tilde{O}^{3/4} \tilde{a} \ddot{z} i \odot w^{\hat{a}0} \hat{a} \pm m \mathbb{A} W^1 D^{\hat{a}0} \ll \mathbf{G} \ll x ; B^1 \ddot{i} \mathbb{x} \ddot{n} \ll x \odot \hat{I} \text{Gamma } \hat{E} ; C$

$\{ \hat{a} \pm m, \hat{E} \ddot{z}^3 \} \odot w \hat{E} \ddot{z} i \ddot{z} i \ddot{O} \{ b \hat{A} \ddot{a} \ddot{z} \ddot{U}, \hat{E}, m \mathbb{x} W^{1/2} \tilde{O}, \hat{E} \ddot{O} \cdot 1/2 \cdot 1/4 v^{13} \} \gg P \ddot{a} \ddot{z} \acute{e} \mathbb{X} \mathbb{x} \mathbb{S} \mathbb{I} i^{\hat{a}0} \mathbb{Y} \acute{u} \ll x \otimes t^2 \mathbb{S} ; C$

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

$\hat{E} \mathbb{H} \{ b \hat{A} \ddot{a} \ddot{z} \ddot{U}, \hat{E}, m \mathbb{x} W \mathbb{S} e^2 \{ \mathbb{X} \mathbb{S} \acute{o} \acute{e} \cdot 1/2 T^{\hat{a}0} 1/4 v^{13} ; i \} \ddot{O} \{ p \cdot \acute{O} \mathbb{x} \acute{u} ; \hat{I} \hat{a} \pm m \ll^2 \{ ; C$

$\{ \acute{O} \mathbb{Y} B ; A \ll \ddot{U} \{ h \ddot{i} \ddot{z} i \} 3D \mathbb{Y} \{ \mathbb{z} t \mathbb{Y} \ddot{a}^{\hat{a}0} 1 C \hat{A}, \mu e \pm^3 \mathbb{F} \ll \ddot{U} \cdot t ; A \ll \ddot{U} \hat{A} \emptyset - \acute{Y} \pm o^2 M \cdot ; i ; C \} b \odot \hat{O} \{ \hat{A} W^1 D \mathbb{x} \mathbb{x} 1/4 W \mathbb{Y}$

$\{ - \hat{U} \{ P^{\hat{a}0} \ll \mathbf{G} \ll x \odot M ; i \} \odot \hat{I} ; \hat{I} \wedge \text{Gamma } \hat{E} \pm N \mathbb{Y} i \ddot{i}^3 o \ddot{C}^1 C \hat{A}, \mu e \pm \mathbb{S} \acute{o} \ll \mathbf{G} \mathbb{x} \otimes \ddot{C} ; A \ddot{A} \mathbb{S} \acute{o} \ddot{a} \mathbb{Y} i^{\hat{a} \pm} \odot \hat{E} ; C$

«öæ@æU²M³ææè¶ô²²½bÀYæHjï"úæÑ·Æ±ì±±"î²²;â±mÀW¹D;C  
±zæiæHæÀŞO©î²;P®É½Ö³¼ă¬ō;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~;BšC;Bααμ¥;B°²©M³ìαj

!â±m!±½u<sup>a</sup>îšîÄãŸÜ;C !±½u±N·|!b±z½Ö¾ä¹¡ñ«x;B«G«x©î÷ºÈ®ÉSY®ÉÄÜšó;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



«ö@U¥H;í ú@ÓíÿÜ;A¥H;b Windows ¤u\$@!C¤¤¥N³i;u NVIDIA ³]©wÈ;v¤½¥íμ{!;C

1. ±q²M³æ¤¤;í¼Ü±znÃãÿÜ³³íÿÜ;C
2. μM«á«ö@U@M¥í¥H\$ó·s¤u\$@!C¤¤³³íÿÜ;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¬³ææ@©M;h«®à±æíÅã¥Ü¾¼¹;]ºÊµø¾¼¹; ^³]©w;UºØ;u®à±ºP²z-  
û;væ\`à;C

3o"Çjïµ®e³\±z"Mcw¼v¹³;b¥HŞC©ó³l°²ää´©,Ñ²R«x"ï¥í®É;A©ó¥±Åä¥Ü³¼¹κW²ºÅä¥Ü;ì,m;C

½D`îŷî½bÀY«ö¶s½Ö³¼ãºÊµø¾¹κW²º@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<sup>æø</sup>®æ!;©M°ê§O³]©wÈ;C

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

|<sup>12</sup>M<sup>3</sup>æ®e<sup>3</sup>\±z®Ú¾Ú!Ûπv©Ò©~|í<sup>20</sup>ê®aj]a°İi^"Ói"ú<sup>1</sup>qμø¿é¥X®æ!j;C

<sup>3</sup>Æμù;G |p<sup>2</sup>G±z©Ò|b<sup>20</sup>ê®aj]a°İi^"S|<sup>3</sup>C|b<sup>2</sup>M<sup>3</sup>æππ;A½Đi"úÁ+;Ûπv©Ò|b|a°İ|<sup>3</sup>ñ<sup>20</sup>ê®aj]a°İi^;C



«öæ@æUæè!VÁä`Ó½Ö¾ä¹qμøæWæº@à±ÁäæÛ;ì,m;C

<sup>³</sup>Æμù;G |p²G¹qμøμe±;]½Ö¾ä¹L«x|ÓæX²{ÁäæÛÁø¶Ä©î²ÁæÖæº°ÝÄD;A«h½Dμæ«Ý 10 -íÁÁ;C μe±·|  
|Û°Êæð|^`ä¹w³];ì,m;A±z\$Yæi«·s¶i|æ½Ö¾ä¹;C 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¥H1/2Ö3/4đ1qμø1/4v13a01iñ«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

½D̄̄îŷî³ō̄Ç±±̄̄îz̄̄îŷ̄̄µ̄̄Ó½Ö¾äÄäŷÜ,Ë,mj]ºÊµø¾¹;^ºº¼v¹³©Î DVD ¼¼½©ñºº«~½è;C  
±zŷiŷHæÀŞO±±̄̄î«G«x;B¹îæñ«x;B;â-Ûæ¹;©M«x;AŷH«K;b±z¹q,£æW¼¼½©ñ¼v¹³©Î DVD  
¹q¼v®ÉÀð̄̄ú³î̄̄îºº¼v¹³«~½è;C

½Ö¼ä NVIDIA 1ÿÿÿB²z,Ë,m²²©Ö¼ß©M°O¼ÄÁé©É⁻ßÄW²v;C

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

¥H|Ê,U»® ÷ ñ°³æ;ì"Ó²í¥Ü¥Dn®É³t«x;C

³]©w¹ĩşĩŷdαW²ººO¾⁄₄ĐÁéα¶±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®É~β½Ö¾ä¥\`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  
¹îš¹³B²z,Ë,m¹îš¹¥d;A½Đ"î¥!¹¼Ò!;C

nView ½Æ»s¼Ò;|·|;b|,nÅã¥Ü,Ë,m¼WÅã¥Ü»P¥DnÅã¥Ü¾¼¹ºº¼v¹³¼@¼Ò¼@¼ËººÆ¥»|C

nView xôŶÂX®i¼Ò!j¥iŶî"Ó±N Windows ®à±xôŶÂX®i;Ü"âÓÃãŶÜ,Ë,mxW;C |b;¼¼Ò!j;mx  
jA"âŶxÃãŶÜ¾¼±N²Õ;X;"x@Ó¼e'T²²ÂX®iÃãŶÜ²¡±  
jA³o|bÀËμø¼e«x;xj©ó³æx@ÃãŶÜ¾¼¹²²¶μŶØ®É«Ü;³Ŷî;C

nView ««²½ÂX®i¼Ò;ï¥íî´Ó±N Windows ®à±««²½ÂX®i;Û´âÓÃã¥Û,Ë,mæW;C ;b;¹¼Ò;ïæ  
;A´â¥xÃã¥Û¾¼¹±N²Õ;X;´æ@Ó°ææ;BÂX®iæ°Ãã¥Û±  
;A³o;bÀËµø°æ«xæj©ó³ææ@Ãã¥Û¾¼¹æ°¶µ¥Ø®É«Û;³¥î;C



«öæ@æU¥H±N¥Ø«e²º¥þ´º±½´y;ì,mÂê©w;þ½Æ»s¼Ò;ì; nÅãÿÜ¾¹æW;C

³o¼ËÿiÅý±z;³@Ä;a±NµêÀÀ®à±áµ²;þ-YÓ;ì,m;A³o¹;ï©óÂ²³Ø©î²{À³ÿíµ{;ì;ææ²ººë²Ó³;ÿ÷±N«Ü;³ÿí;C

Ynġĩ"únÁY©ñªº¼v¹³¿Ã¹ð°ĵ°ĩ;A½Đ«öæ@æUæææß©Î½bÀY¹ĩÏÜ;C  
¿ĩ©wæ§«á;AÏĩÏH²³⁄⁴°ÊæUæèªº·Æ±ĩ"ÓÁY©ñ!¹³;Ï÷¿Ã¹ð;C

2<sup>3</sup>/<sub>4</sub>°Ê·Æ±ì¥H«K©ñxj©ÍÁYαp¼v<sup>131</sup>/<sub>4</sub>½©ñ¿Ã<sup>1</sup>õ<sup>20</sup>¿i©w<sup>3</sup>¡¥÷¡C

«ö@U²M³æè¶ô²½bÀY;AµM«á@Ú¼Ú·Qn;bp@ÓÅÿÜ¼¹æ§W¥H¥p¿Ã¹ð¼Ò;¼½©ñ¼v¹³;A¿í"ú¥D-  
nÅÿÜ¼¹©!; nÅÿÜ¼¹;C Yn°±¥ÿp¿Ã¹ð¼Ò;¼½A½D¿í"ú°±¥ÿ;C

±j"î«Å|³nÅé"ï¥î¶×¬y±Æ¥D±±¥\`à;C

³Æμù;G «ØÄ³±z±£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¿Ã¹õ§ó·sÀW²v¥íº§C¿Ã¹õº{Ã{¡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!bκWκèjï©w¹ÏÛ©Ò¬ÛÀ³²ºÅãÏÜ³/4¹«ü©w¬°ÏDnÅãÏÜ³/4¹;C  
|b±z±Ò°Ê¹q,£®É;AÏDÅãÏÜ³/4¹κW·|ÏX²{μnζý¹i,Ûκè¶ô;C @Ú³/4Ú¹w³];A|b±z²i,±Nμ{;¶¶}  
±Ò®Éκj|h¹/4ÆÈ³Ïμ{;μøμ;³£·|ÏX²{|bÏDnÅãÏÜ³/4¹κ§κW;C ÏDnÅãÏÜ³/4¹¹;©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©îÄÜ§ó»P¥Ø«eÅã¥Ü³/4¹©Ò·î¥í²º¿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

¡,ê°T,Ô²Ó»¡©úαF¥Ø«e¿¡©wªª NVIDIA ¹ĩſî³B²z,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 ÷¾¼!¥·Æ³B²z¥\~à;C

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

¥iÁý±z“Ï¥í 2x ¼Ò!j¶i!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´£¨Ñªºκİç÷¾¼ı¥·Æ³B²z±MŞQŞP³NıC

³ÆμùıG Quincunx κİç÷¾¼ı¥·Æ³B²zıı´£¨Ñ, ûºCªº 4x κİç÷¾¼ı¥·Æ³B²z¼Öıı;κŞ«~½èıAıÖ¨ä@ÄªG»P, ûŞÖªº 2x  
¼Öıı;¬Û@tμL´XıC

±Ò¥í 4x ¼Ò;í;í;ææí;÷¼;¥·Æ³B²z;C

<sup>3</sup>Æμù;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;÷¾;¥·Æ³B²z;C |¹¼Ò;¥i;|b 3D À³¥Íμ{;|;ææ²£¥íæñ 4x ¼Ò;|;§ó"íæº¼v¹³µe½è;A;ý·|  
μy·L°§C 3D À³¥Íμ{;|;æºδ;æ@Ä`à;C

**³Æμù;G** |¹³]©w¥u·|¼vÅT Direct3D À³¥Íμ{;|;C |b°δ;æ OpenGL À³¥Íμ{;|;@É;AOpenGL ±N"í¥íæUæ@-  
Ó¥í;ææºæí;÷¾;¥·Æ³B²z³]©w —} "Ò;¶;AæñæWz 6x ³]©wÈ°ææ@`Åæº;í¶μ³]©wÈ;C

·|-°ä´©äĳ÷¼!¥·Æ³B²z²º 3D À³¥îµ{!;!Û°Ê±Ò¥î³!îÆÆäĳ÷¼!¥·Æ³B²z³]©wÈ;C

® e³\±z¥Hκâ°Êªºκè!;ζĩ ú;b°ð!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\`àʘiʘî\`Ó½Ö¾ă¹îŝî³B²z,Ĕ,m²º\`Ó¹qŋq;C

±zʘiʘH³J©w³îʘj\`Ű¹qŋqʘH,`-Ű¹q;À¹qʘO;A©Îġî\`ú³î°²@Ā\`àʘHʘRʘ÷μo´ŝ NVIDIA  
¹îŝî³B²z¾¹²º¹îŝî®Ā\`à;C

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

³ **Æ µ ù ; G** ± Ò ¥ î º 1 ç º î º µ ¥ H « K ¯ ¯ ° ³ s ± µ ; Ü ; h « Å ä ¥ Ü , Ë , m º º º º C -  
Ó Å ä ¥ Ü , Ë , m ç º º º º ú ç W ¥ ß º º , Ñ º R « × © M ; j ] © î ; ^ | â ± m ² ` « × ; C

«ö@U¥H¶}±Ò@Óÿ,Üæè¶ô;A±q¨äæ¶Ûq²b¥[²º OpenGL ¥ßÁéÁn»P«Á³]©wÈ;C

³Æμù;G ¥u;³;bi¹±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|¥-  
±ÅÚ¥í¥í\$@½Ö;â²²²í±;C 1ÿ©ó;W¥ß²² 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 ¥ßÁé»P«Å|μL²k;P@É`í¥í;C «Å|»Ý-  
nÃB¥~²²³/4÷, ü¹í\$í°O³/4ÐÁé;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

±Ò°Ê OpenGL ππ²ºψΒΆέ;C

¬°°δ;æ"ϊΐςÖ²ùÃèπί" äψLμwΆέ²ºψΒΆέÀ³ΐμ{;;ANVIDIA ΆX°Êμ{;±N¶xψX OpenGL ψΒΆέ¹³-À®æ;ι" Ά²ÖÃ  
´°O¾¼ÐΆέ;AψH®e³\|P®É"ϊΐψΒΆέμøÁ±»P³æμøÁ±À³ΐμ{;;C

³Æμù;G ½Ðψu;|bψ²n®É±Ò°Ê;ζϊ¶μ;C |b"äψLÀ³ΐμ{;;ψι- àμL²kψHψΒΆέ¹³-À®æ;ιψ  
ζ±`§@~®É;A¬Υ"ÇÀ³ΐμ{;;ι·|;Û°Ê;ζϊ¾¼ÛψΒΆέ®æ;ι;C

³Æμù;G OpenGL ψΒΆέ»P«Ά|μL²k;P®É"ϊΐ;C ψΒΆέΆnÀËμø»Ý-  
nÃBψ~¾¼÷, ù¹ϊςϊ°O¾¼ÐΆέ;AψBψι- àμL²k;|b©Ö;³, Ñ²R«xπU"ϊΐ;C  
|p²G±z;|bψHψΒΆέ¶ι;æÀËμø®É¹"ι°ΥÃD;A±zψι- àn°§C, Ñ²R«x©Ï;â±m²`«x;C

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



“iŕi»«<sup>a</sup>1/2ŕæù°Êμø<sup>3</sup>/<sub>4</sub>1jR |p<sup>a</sup>G±zrw±N;Û°ÊŕBÅéŕ±ÅãŕÛ<sup>3</sup>/<sub>4</sub>1<sup>3</sup>s±μ;Û<sup>1</sup>ŕŕŕd;A<sup>1</sup>/<sub>2</sub>D±Òŕŕ<sup>1</sup>ŕŕμ;C



“İİİ¼ ÷ ü DIN ³s±µ¾¹jR ;p²G¹İİİd” ä³π«Ø 3 °w DIN ³s±µ¾¹jA½D±Öİİ¹İİµjC  
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

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U@μLkÀÈμø¥βÁé@ÄG;A½Džĩ¼Ü!¹žĩ¶μ¥H¥æ´«¥²¼»P¥k°¼²¼v¹³;C

Æμ;G Ɂ@ ¯ëɁW;A±z¥i¯à¥u»Ý|b««²¼¥æ¿ÛÄã¥Ü¾¹ɁW"Ä³B©ó³Q°Ê¼Ö;|®É±Ö°Ê¹;žĩ¶μ;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. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.

°ø;æ 3D Å³¥íμ{;i "Ã¥B±Ò¥íαĩç ÷¾4|¥·Æ³B²z¥\`à®É;A¥i"ĩ§÷½èÅA©úαÆ;C ³o|³§U©ó§iμ½¼v¹³μe½è;C

23/4 °Ê·Æ±ìÏH³]©w®MÏÍ; b§÷½èα§αW²º«D§;½è¹LÂo²ºμ{«×;C ³ìº²²º³]©wÊÏÏÏH²£  
Ïí³ì··îºº¼v¹³µe½è;A;Ó³ì§C²º³]©wÊ«hÏiÂò±o³ìº²²ººö;æ®Ä~à;C

±j"î°»´ú»P¹îšî¥d-Û³s²º¹qμø³/₄÷;AŞY"İ±±"î±²O"Ã¥¼Åã¥Ü¥Ø«eæw³s±μ¥ô;ó¹qμø³/₄÷æ´±j"î°ð;æ|¹°»´ú;C  
;p²G-Û³s²º¹S©w¹qμø³/₄÷«¬"S;³¥¿½T;a,üæj«H,¹;ÓÅý¹îšî¥d°»´ú"î¥;²º;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<sup>3/4</sup>V;v→O;u<sup>1</sup>w<sup>3</sup>]v<sup>20</sup>@à±¼Ò!;C

¡uÁa;Vjv¥i¥H"Īμε±±ŪÂà 90 «x¡C

¡uãî¼î!V¡v¶i¶H“Īµε±±ŪÂà 180 «×¡C

¡uãĪÁa|V;v¥i¥H“Īμε±±ŪÂà 270 «×;C

¥i¥H"ï¥í|V¥k (->) Áä" Ó°ð;æUæèº±ÛÀà;ï¶µ;C ©í¶|¶]  
¥i¥H«öæ@æU¥kæW"æººj±Û½bÅY;A¥H©;V±ÛÀàæè|Væ§æè;ï"Ó°ð;æ±ÛÀà;C

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



±Ò¥Î¬ÛÃö OpenGL <sup>-3/4</sup>z<sup>1</sup>X|ì|æ¬°;C

¡u\$÷½è<sup>1</sup>X|ì|v¬O«ü|p|ó|b¶W¥X\$÷½è¥»Åé®É<sup>3</sup>B<sup>2</sup>z\$÷½è®y<sup>1/4</sup>Đ;C  
¥i±N\$÷½è®y<sup>1/4</sup>Đ<sup>1</sup>X"î|b<sup>1/4</sup>v<sup>13</sup>Ää½t©î<sup>1/4</sup>v<sup>13</sup>¤\$¤°;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®Éκi-M;ib¥Dnκi|,nÅã¥Û,É,mκW;C

ÁY©ñ±±î¿ïµ¥í¥H©ñ±j'yÃ, «²{²º¼v¹³;C

«öæ@æUæU©Ô;¡¥\`à²¡«öïS¥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§³B²z,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§³B²z,Ë,m³y|·l®`!Ó±Ä"úæFp"Ç!æ°Ê»P"BAË;C

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«ö@UŸí" Ó;b|¹±ªOαWÅãŸÜ·Å«×Ëªº·Å«×³æì;]μØαó©ÎÄάαó;^;C

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

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

±²OxW±Ö¥İxFu±Ö¥İ¼ö«x«ü¥Û;OÅµSi;v;İµ®É;A·|;Û°Ê¥X²{x@Óİ,Ûæè¶ô;AÄµSi;¹ºØ±

j³p“Ã»j©ú©Ö±Ä“ú²º;æ°Ê©M“BÆJ;A¥Hxƒ“¾xî¥i“à²ƒ¥İ¹L¼ö“Å¥B¹i“t²iææ

¥ô|ó“S©w²ºİŞİ³B²z,Ē,m³y;“²º.l@`iC

ÅãÛü"tî!«½LααÛØ«e²º;uNVIDIA ¹îî³B²z,Ë,m®Öαβ·Å«x;v;C

!^\_ê°T»j©ú"t?Í¤¤»PAGP -ÚÃöºº¥\`àjC

¥»\_`»j©ú¹q,£¥D³/4÷²O´¹xù²Õ²»s³y°Ó|WºÙ¥Hxí AGP ¥\`àjC



¥» `·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

|<sup>13</sup>]©wÈÿiÁý±z¥Hαâ°Ê<sup>20</sup>αè;|½Ö¾ã¥í"Ó¾p§@1í§í¥d<sup>203</sup>ìxj AGP <sup>3</sup>t<sup>2</sup>v;C

<sup>3</sup>Æμù;G |p<sup>2</sup>G±N<sup>3</sup>]©wÈ½Ö¾ã±oαñ¾A¥í©ó~S©w"t<sup>2</sup>í<sup>20</sup>;w¥p<sup>2</sup>Ö<sup>2</sup>A<sup>3</sup>t<sup>2</sup>vÁÛÖ<sup>20</sup>Ü;A¥í-à·|í"t<sup>2</sup>íÁÜ±oαfÃ-  
©w;C

® Öðð;¹æè¶ò¥H±Ò¥í AGP §Ö³t¼g¶¶ (FW);C

® Öœß;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

!z!µ¥i¥î"Ó±±"î¥i!C³³³«Ý³B²z³³ AGP ¶x-y±Æ³³³}²j¼Æ¥ØjC

¿í"ú!¿í"μ¥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}¼Æ¥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





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

© e³\ÅX°Êμ{; ; ú¶N Direct3D À³¶íμ{; ;ªº«·s¾ã²z³t²v;C πUπèªº²M³æπè¶ô·||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<sup>ao</sup>-Û¹¹q¥iC

¥Ø«e<sup>201</sup>q;À¥R<sup>1</sup>q¶q;C

“İŸİ;u<sup>1</sup>qμø;Ã<sup>1</sup>õxjxp;v·Æ±İ;A±N·Æ±İ<sup>23/4</sup>“İ½Ö<sup>3/4</sup>ã<sup>1</sup>qμø;Ã<sup>1</sup>õxjxp<sup>20</sup>μŸ~Å;C Á|  
“Ò“Ó»İ;A;p<sup>2</sup>G;b<sup>1</sup>qμø;Ã<sup>1</sup>õxW~Ý“İŸĀ;â<sup>20</sup>Ãä®Ø;A«KŸİ“İŸİ<sup>1</sup>±<sup>2</sup>Ÿb“Ó©ñxj<sup>1</sup>qμø;Ã<sup>1</sup>õxH±NŸĀ®Ø<sup>23/4</sup>°Æ;C  
<sup>3</sup>Æμù;G <sup>3</sup>İŸkÃä<sup>203</sup>]©w;]Ÿâ·Æ±İ<sup>23/4</sup>“İ<sup>3</sup>İŸkÃä; ^~O<sup>3</sup>İ<sup>3/4</sup>A;X©óÆ[½à DVD <sup>203</sup>]©wÈ;C

ju<sup>1/4</sup>Æjì«G«x;v¥i¥í"Ó±±"î!â±m±ÀÀ÷©M<sup>1/4</sup>v<sup>13</sup>±K«x;A<sup>2</sup>f¥í§ó©ú«G<sup>2</sup>M'.æ<sup>1/4</sup>v<sup>13</sup>1/4<sup>1/2</sup>©ñµe<sup>1/2</sup>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°ïªæ;Ûq¼¼Ò!;s¼¼W;Û;u;Ûq¼¼Ò!;v²M³æ;C

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



«ö@U¥H<sup>23</sup>/<sub>4</sub>°£¥Ø«e!b;u!Ûq!¼Ò!;iv<sup>2</sup>M<sup>3</sup>æ¤¤©Ò;ï©w<sup>20</sup>¶µ¥Ø;C

® Ö; i; 1æè¶ô¥H“İn; b; i; ©w²ºĀã¥Ü¾¹κW³]©w²º¼Ö; ; xp©ó¶Ç²î²º Windows ®à±¼Ö; ; ; C ³o«Ü¥i~à·|  
“İĀã¥Ü¾¹²ºÆ[-Y°i°i-Y°\_“Ó³QÁY©ñ¹L©İ-O²uµÜ®à±¥²³¼; A; ¹²{¶H±NµøÓŞÖĀã¥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]©wÉ;C

½Ö¾äºù«ù¥Ø«e²ø¼eπñ²ººÊμø¾¹p®É;C

ÄäÿÜ ClearView ÄäÿÜ¾¼¹²ÖªAªª¹î§îÿNªí;C «öª©ªU"Ã©ì²ªÊµø¾¼¹¼v¹³ÿH«·s±Æ;CÄäÿÜ¶¶§Ç;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;n²ºÄãÿÜ¾¹§ó·s;v±²¶bÀH©Éμø»Ý-  
n§ó·s;C

¥í·Æ¹«¨Ó¿í"ú³ß;n²ºÄã¥Ü¾¹;C ¥Ø«e·Æ¹«©Ò©ñ;ì,m²ºÄã¥Ü¾¹±N³Qμ∅¬°¥í°μ§ó·s¥Ø²º²º³ß;n²ºÄã¥Ü¾¹;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@!;iC

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

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

!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®Éˆß³]©wÈ¥ı̄M©w 2D À³¥ı̄μ{ı̄ı̄²ººöı̄æ³t«xı̄ı̄³ı̄hşÖı̄C

“M©w!¹®É¹©ó”t²î;Ó“¥³;w¥p²º³]xj®É⁻β³]©wÈ;C ¡³B”M©w²º³]xj®É⁻β³]©wÈ·|;|«áÄð²ºº;ð;æ;Ó¹³©Òx  
£!P;Ax]»Ýμø”t²î³B²z!Û°Ê°»´úÀ£xO´ú, Õ²º±;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→²A;C;p²G©ñ¶}}1j°v;A¼4u¥X;¡;¥\`à²f·||Û°ÊÄö³¬;F;Ó·í±  
±“î±²Oμøμ;¥ç¥hμjÂl®É«h·|¥’¶}};C

Áý±z¥Hæâ°Êæè;¡¬°«ü©w²ºÄä¥Ü,Ë,m¿ĩ"ú¥þ´º±½´y,Ñ²R«×;C |p³G¿ĩ"ú¥þ´º±½´y,Ñ²R«×;AÅX°Êµ{|;|  
ºÉ¥ĩ-à¥H«ü©w²º,Ñ²R«×¶iæj¥þ´º±½´y;C

³Æµù;G |b«·s±Ò°Ê"t²îæ§«e;A!¹³]©wË·|ºû«ù!³@Ä;C

·í°Êμø³/4¹;]Åã¥Û,Ë,m;^æä´©¥»³/4÷±ÛÀà®É®Özi¹æè¶ô;C

³Æμù;G |p²GÅã¥Û,Ë,mæfæä´©¥»³/4÷±ÛÀà;A"º»ò®Özi¹æè¶ô±N·|°±¥Í±ÛÀà¥\`à;C

© Öjî¹æè¶ô¥H±N·î¥îì)¿î©w²º 3D À³¥îµ{!;«D§;½è³]©wÈÂÐ»\À³¥îµ{!;¿î©w²º«D§;½è³]©wÈ;C

® Öjî¹æè¶ô¥H±Ò¥Î;uÂù«±½´y;v;C

§ ;uÂù«±½´y;v·|ÅãμÛ;a§iμ½§C, ÑªR«×ªª¼v¹³me½è;A¹i©ó¥þ¿Ã¹δ¼v¹³©Î¹q, £¹CÀ, !Ó´¥³!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!³ä´©²²!â±m²`«xαU·s¼Wα§;Ûq¼Ò!;αf¥uα@ºØ;C

¥iÁy±z!b©Ò!³ä´©²²«·s³/₄ã²z³t²vαU·s¹/₄Wα§!Ûq¹/₄Ò!;α£¥uα@²Ø;C

ÄäÿÜ°Êμø³/4¹;]ÄäÿÜ,Ë,m;^ÿíÿí²º;Ã¹ö,Ñ²R«×³]©wÈ;C ²³/4°Ê·Æ±ìÿH¿ï úα£|P²º¿Ä¹ö,Ñ²R«×;C



¡C¥X©Òμoφί"Ã¥B³Q,Ë,mÃX°Êμ{¡¡μnπ]º~S@í NVIDIA ³îšî³B²z,Ë,m"Æ¥ó¡C π]  
¥i¥H¥î"Æ¥ó°O¿ýÀÉÀËμøμ{¡¡"Ó-d→Ý³o"Ç"Æ¥ó¡C

«ü©w|b OpenGL ɹɹŸí©ó«Á|²º¹³~À®æ|;i;C

- |â±m©w~Û«Á| (8bpp);G ˆİŸí 8 |ìɹ, ½Ö!â«Á|;C
- RGB «Á|;|RGB555 ®æ|;i; ^;i;G ˆİŸí 16 |ìɹ, (RGB555) «Á|;C
- |â±m©w~Û (8bpp) ©M RGB555 ®æ|;i;G ®e³\À³Ÿíμ{;i; ˆİŸí 8 |ìɹ, ½Ö!â©Í 16 |ìɹ, (RGB555) «Á|;C  
³/Eμù;G «Á|;»ÝnÃBŸ~²º³/4÷, ü¹|ší°O³/4ÐÁé;AŸBŸí~àμL²k|b©Ò;³, Ñ²R«xɹUˆİŸí;C |p²G|b;sˆú«Á|Ÿ\  
ˆà®É¹Jˆì°ÝÁD;AŸí~àn°šC, Ñ²R«x©Í!â±m²ˆ«x;C

±Ò¥í Gamma ®Õ¥¿Ö×¥¿¿÷¼¥¢~u½u±ø;C ¬°¥¶¶½u±øµÛâ®É;AGamma ®Õ¥¿²²¿¿¿÷¼½u±ø·|  
|Ò¼{¿¿é¥X,Ë,m!â±mÃâ¥Û¥\~à²²ÃÛ¼Æ;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;AφϕÜ·|ϕίκWκÉ½t´´Óº»´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; ^1ï®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-ºA¹šî·|Åã¥Ü¹î®ØÂê©w¥d¥Ø«e²º²-ºA;C

- |P" B 'Nºü"ãÁé»;©úxF¿é¥X;ÛNVIDIA ¹šî³B²z,Ë,m²º;P" B«H,¹;C
- ¥æ'«'Nºü«ü©w;|b¥î"Ó±Nμâ²áÁìxW²º©Ò;³¹šî³B²z,Ë,m;P" BxÆ²º NVIDIA ¹šî³B²z,Ë,mx\$¶;¶Ç°e²º«H,¹;C
- p®É;P" B;ìx, -O«ü³z¹L¹î®ØÂê©w³s±μ°ð²ºp®É;P" B;C
- ¥BÁéÁn;P" B"ãÁé»;©úxF;ÛVGA ¹šî¥d¶Ç"Ó²º;P" B«H,¹;C;p²G" S;³¥i¥î²º¹î®ØÂê©w©î¥~"Ó¼v¹³;P" B;A«h"î¥;¹;P" B¼Ò;ì;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" B³]©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±ººĂăŸÜ¾4¹ºt¹İ;C ²Ăæ@ÓİŸÜŸN²İŸDnĂăŸÜ¾4¹;AİÓ²ĂæGÓİŸÜ«hŸN²İ;,-  
nĂăŸÜ¾4¹;C ³ºæ@Ÿ÷²M³æ»İ©úŸİŸHİP®É”İŸİºº©Òİ³ĂăŸÜ¾4¹ºt¹İ;C



±Ò¥í;uæô¥ÂX©;i;v©Í;u««²½ÂX©;i;v¼Ò;í;æ¾4í\_ó nViewÃãÛ¼¹²º;u©à±«Á|;v;C |b;uÂX©;i;v¼Ò;í;æ  
æ"í¥í;h«ÃãÛ¼¹"Óc!""³ææ@©à±®É;A!¹¿í¶µ"íæ@³;¥÷²ºÃãÛ¼¹¼v¹³²uµÛ¼FñÃãÛ¼¹²ºÃã½t-  
«ÂÐÃãÛ¼;C

«ü©w!b;uκó¥ÂX®i;v¼Ò!;κκ"ï¥!;u®à±«Â|;v®É;An«Â|²ºκô¥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<sup>αα</sup>Ää¥Ü³/4¹Ää½t;A«öα@αU;Ã¹ö¼v¹³Ää½t<sup>αα</sup>è;VÁä;C

«ü©wκó¥Áä¥Ü³¼¹Ää½t¥í©ó;ušë©g²V!X;vκ<sup>0a013</sup>-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<sup>a</sup>μŪ<sup>2</sup>V!X<sup>o</sup>¥Å<sup>ä</sup>Û<sup>¾</sup>Ä<sup>½</sup>t<sup>º</sup>¥Ø<sup>¼</sup>Ð©ú«xÈ;C

©ú«x<sup>½</sup>d<sup>¾</sup>ò;G ¼¶©ó 0 `ì 255 Ó<sup>§</sup>¶;C «ü©w<sup>º</sup>¼Æ|r¶V<sup>¶</sup>j;A|b<sup>2</sup>V|XÄ<sup>½</sup>t<sup>º</sup>¼v<sup>13</sup>´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 ¤¶©ó0 "ì255 Ó¤§¶;i;C "Ï¥î¼ÆÈ\_û¤jªºº¥ÅÜ°I'î;³§U©ó

î¤ÖªuµÛÅã¥Ü¾¼¹Ãä½t¥X²{ªº±µÁ\_;A "Ã¥BÃ²¤ÆÃã¥Ü¾¼¹®Ö·Ç;A;ý;³¥î"à¼vÃTµe½è;C

«ü©w<sup>a</sup>μŪ<sup>2</sup>V!X««<sup>a</sup>½Äã¥Ū<sup>3</sup>/<sub>4</sub><sup>1</sup>Äã<sup>1</sup>/<sub>2</sub>t<sup>a0</sup>¥Ø<sup>1</sup>/<sub>4</sub>Ð©ú«xÈ;C

©ú«x<sup>1</sup>/<sub>2</sub>d<sup>3</sup>ò;G ¼¶©ó 0 "ì 255 Ó¼¶¶ij;C «ü©w<sup>a0</sup>/<sub>4</sub>E|r¶V¼j;A;b<sup>2</sup>V;XÄã<sup>1</sup>/<sub>2</sub>t<sup>a0</sup>/<sub>4</sub>v<sup>13</sup>´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]©w¹i,Ü¤è¶ô;C

±j"ŕ¼v<sup>132</sup>V|XμŪ!â¾4¹æ'©;C !pªG!b¿i©wªº¥p¿Ã¹ðÅã¥Ū,Ë,mæW-Ýæ£"i¥p¿Ã¹ð¼v<sup>13</sup>;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" B ½ÄÄà»¼;Ü±qÄÝ,Ë,m¤§«e±μ"üº¥~³;|P" B¥| "¾¹ ½Ä¼Æ¥Ø;C

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→°S©w²ºÀ³¥{;³`îæ¹qμøκW²º¹îšî;C

±N<sup>1</sup>İŝİ!b<sup>1</sup>qμøW, mαα;C

3 | Îµ/Ε¹ qμø¥H¥Î © 6¼½ © ñ DVD;C

31`îæ/E¹qμø¥H¥í©ó®à±'î§í;C

¥H;Ûq<sup>203</sup>]©wÈ±N<sup>1</sup>qμø<sup>3</sup>îîαÆ;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«·s¼ã²z³t²v;C πUæèªº²M³ææè¶ò·||b±Ò¥í!¹¿ï¶μ®É³Q±Ò¥í;C

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

1w³]È²í¥Ü" ¶í¥º- OÀ³¥íµ{;i²º«·s³/4ã²z³t²v;C " ä¥L¥ô;ó¼/ÆÈ«h²í¥Ü±N\$ó·s³t²v³]©w-ºÀ³¥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

·í-YÓ«·s³/4ã²z³t²v³Q" ú¥N¶\$«á;AMicrosoft Windows Áö·|³ø\$;iÄ³¥íµ{;i; ©Ö«ü©w²º-  
«·s³/4ã²z³t²v;A;ý-OºÈµø³/4;]Äã¥Ü, È, m; ^· ¶í³Q" ú¥N²º«·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¨B¤Æ¬³î®ØÂê©w!P¨B«H, ¹²º±qÄÝ¤î±¥d;C

«ü©w→O§\_n¥]stα£¨üÄã¥Ü¾¹αä´©²²¼Ò¡¡¡C

²`·N¡R ¿¡¾Üα£¾A¥Í©óÄã¥Ü¾¹²²¼Ò¡¡¥í`à·¾ÉPÄY«²²Äã¥Ü°ÝÄD¡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;ï©w²º;Ã¹ö,Ñ²R«xææÿiÿí²º«·s³/4ä²z³t²v;C «öæ@æU;¹;ïµÿH;ï´úæ£;P²º-  
«·s³/4ä²z³t²v;C

ÅäÿÜæWæ@!,<sup>1</sup>Á,ÖÅÜşó®É<sup>20</sup>;Ã<sup>1</sup>ö,Ñ<sup>2</sup>R«×;B!â±m©M«·s<sup>3</sup>/<sub>4</sub>ä<sup>2</sup>z<sup>3</sup>t<sup>2</sup>v;C

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

«öæ@æU¥H;ï" ú°Êμø³/4¹ªºÃä¥Üp®É¼Ø;ï;R

- |Ū°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 ¹;©ó,ûºª,ÑªR«xªºæä  
´©æñ"ä¥Lp®É¼Ð·Ç;ï;C
- ©T©wªº¼ææñp®É±j"ïÃä¥Üªº¼v¹³«O«ù|b«ù©w¼Ø;ï;ïÓæ£-OºÊμø³/4¹ªºªºªº¼eæñ;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®Mæí³o¨Ç!â±m,Éæ¿³]©wÈ;C

- **æp³;æi±N³]©wÈ®Mæí;Ü Windows ®à±©M¼v¹³¼¹²©ñ;C**
- **®à±æi±N³o¨Ç!â±m,Éæ¿³]©wÈ®Mæí;Ü Windows ®à±;C**
- **«Å|VMR æiæíæ@Ó«Å!±N³o¨Ç!â±m,Éæ¿³]©wÈ®Mæí;Ü¼v¹³¼¹²©ñ;C**
- **æp¿Ã¹õ¼v¹³æi±N³o¨Ç!â±m,Éæ¿³]©wÈ®Mæí;Üæp¿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¥¿!±½u²º¡îš!Áã¥Ü;C ¿éπJÈ·|²uμŪ X ¶bÅã¥Ü;A;Ó½Ö¾ã²º¿é¥XÈ«h²uμŪ Y ¶bÅã¥Ü;C ¾Æ;rÈ·|  
Åã¥Ü;|b¾F²ñ²º½s¿è²è¶¶;C

- |b¾D·C¾O;¡;²²½Ö¾ã;u¹i²ñ«×;v;B;u«G«×;v©Î;uGamma È;v·Æ±ì®É;A;¹!±½u·|  
ÀHμŪ½Ö¾ã;Ó°È²AAÜšó;C
- |b¶i¶¥¾O;¡;²²;A¥i¥í·Æ¹«©ì²±±“îÁ;A;|b½s¿è²è¶¶ÅÜšó¾ÆÈ;A©Î-O“î¥í²è;VÁã“Ó¹ê®É×¥  
¿!¹!±½u;C ¥i¥H²uμŪ!±½u«öπ@πU·Æ¹«¥²Áã©ÎÁ£πU Insert Áã“Ó’;πJÁB¥~²º±±“îÁ;C ¥i¥H±N±  
±“îÁ!©îÁ÷Áã®Ø©Î“î¥í Delete Áã“Ó²¾°£±±“îÁ;A“Á¥B¥i¥H“î¥í©ì²¿¾Ü©M Shift xí Control -  
×šîÁã“Ó¿i“ú;hÓ±±“îÁ;C
- |b ICC ³]©wÁÉ¾O;¡;²²·|Áã¥Ü±q ICC ³]©wÁÉ,üπ²º;â±m,É¥¿!±½u;C  
“î¥í±M·~²º¥X²©Á³¥íμ{¡;¡;A®Ü¾Ü ICC ³]©wÁÉ²º,ê°T“Ó°ò;æ°t;âπu\$@;C

ÅäÿÜÿØ«e<sup>20</sup>·Æ<sup>1</sup>«;ì,m©î!±½u<sup>1</sup>ïææ<sup>20</sup>±±“îÂ!<sup>20</sup>¿éæJÈ;C

ÅäÿÜø«e<sup>20</sup>Æ¹«;ì,m©î!±½u¹ïææ<sup>20</sup>±±“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{;¡;κW"ĩ¥í;u«Á|iv®É§Ç¹í;C

¡¹¹¡áí·|Ãã¥Ü" Cκ@Ó'γÃ, κκ²º¹í@Ø;BÃX°Êμ{;¡;¬;°Ê¥Hκí¹í§í³B²z, Ę, m²º³B²z¹Lμ{ ©Ò²á²º®É¶;¡;C  
"Ã¥B·|«ùÃò§ó·s¹¡áí¥HÃã¥Ü³·s²º 256 Ó¹í@Ø²º®É§Ç;C

®É§Ç·|"ì·ÓκU;C¥ŃκW;ÜκU²º¼Đ°O;] C¬í¹í@Ø¹⁄₄E; ^²uμÚ««²¹⁄₂¶b¥[¥H'ú¶q;R

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

¥HÃC;á" Ó°ĩκÃ¥|ºØκ£;P³B²zμ{§Ç²º®É§Ç;R

- ¶Ã;á²áí¥Ü'γÃ, ¹í@Ø²ºÁ`®É¶;¡;
- ¬õ;á²áí¥ÜÃX°Êμ{;¡;©Ò²á²º®É¶;¡;
- ÃÃ;á²áí¥ÜÃX°Êμ{;¡;μ¥Ó NVIDIA ¹í§í³B²z, Ę, m²º®É¶;¡;
- °ñ;á²áí¥Ü¹í§í³B²z, Ę, m²º¶ç, m®É¶;¡;C

|b;u|ø²A³/4¹jv³/4Ò!;xx;A!¹z!µ·|±N¥~±µ|PˆB²£¥³/4¹¶ÇˆÓ²º«H,¹µø¬°¥æ¿ù!;«H,¹;C |PˆBˆB³/2Ä·|  
|b°,³/4ÆÅã¥ÜÄæ!;xx²£¥!;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" Bx/Æ²²¿¿éxj³s±μ³/4¹;C
- ¿é¥X→O«üſí©ó¹í®ØÂê©w;P" Bx/Æ²²¿¿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¥í¤¤©î¶ç,m®Éº«G«x;A¥H«K,`-ù¹q;À`à¶q;C

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

½Ö¾ä¼Æ;ìÄäÿÜ¾¹¼§¤Wÿi¨Ñ¨¨ÿí¹º³)¼j«G«xμÿ⁻ Å;C |¹«G«xμÿ⁻ Åÿ;|b±Ò°Ê¨¨t²í®É¨¨ÿí;C



ÄäÿÜ¼Æ;ìÿ±ÄäÿÜ¾¹ÿØ«e²º«G«xμÿ⁻Ä;C





