

!¹¿i¶µ¶í©ó¶}±ò©íÃó³-Ãä½tÃú¶Æ¼òÀÀ¶\~à;C

Direct3D «ü©w"ã D3D µwÁé¶[³t~àαO²ºÃä¶Ü¾¼¹¶¶±¶dÀ³,Ó¶i¶H°õ!æ³»ÃíÃú¶Æ©íÃä½tÃú¶Æ;C¹³"Ç¹CÀ,µL²k¶
¿½T;a-d_ß D3D µwÁé®Ã~à;A;ý-O«o»ÝnÃä½tÃú¶Ææ´©;C¿i¾¼Ü¹¿i¶µ±N¶i¶H½T«O±±²º NVidia ¹¿ŝ¹³B²z¾¼¹¶i¶H¶
¿½T°õ!æ!¹Ãp¹CÀ;C

!¹¿ï¶µ@e³\±zÃö³¬ÅX°Êµ{;|;²º·s DirectX ¶\`à;C

¬Y"Ç,ûÂÂª©¥»²º DirectX ½s¼g²º¹CÀ,;A¶i¬àµL²k°t|X±w|w,Ë²º DirectX ª©¥» 6 ©Î 7 ±Î;bÅX°Êµ{;|;±±±Ò°Ê±ä´©¥\`à²º±;²p±U¥¿±`°ò;æ;C¿ï¾Û!¹¿ï¶µ¶i±j"iÅX°Êµ{;|;|b DirectX 5 ¬Û®e¼Ò;|;±U°ò;æ;A¥H«KÂÂª©¹CÀ,¶i¥H¥¿±`°ò;æ;C

!pªG±zn°ò;æ¬Y"ÇµL²k¥¿±`±Ò°Ê©Î°ò;æ²ºÂÂª©¹CÀ,;A½zÐ"ï¶i¹¿ï¶µ;C

±j[∞]μwÁé;Ú°É±N[∞]ä Z ½w½Ä°j²` «x½Ö¾4ã-°Ä³¥íμ{;i ©Ò»Ý^{∞∞2}` «x;C

³q±`jA±z|±N¹¿í¶μ«O«ù±Ò°É[∞]-°A;A°£«D±z^{∞∞}πu\$@½T¹ê»Ýn-YÓ⁻S©w^{∞∞} Z

½w½Ä°j²` «x;C;p[∞]G±zÄö³-¹¿í¶μ;A«hπu\$@®É Z ½w½Ä°j²` «x»P¥Ø«eμwÁé²Ö[∞]A²` «xπ
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±Ò°Ê²`«×½w½Ä³B²z²º`ä¥LŞp³N;C

³o¥i¥HÁýµwÁé`î¥i¥tα@Ó,Ë,m;b 16 |ìα,À³¥îµ{;αα¶i;æ²`«×½w½Ä³B²z;C±Ò°Ê¹³]©w¥i¥H²f¥[§óººº 3D
¼v¹³µÛîâ«~½è;C

±Ò°Ê Direct3D ¼¼ºº NVidia À²¼¼Ð;C

|pªG±Ò°Ê|¹³]©w;A;b°ð;æ Direct3D À³¶íµ{|;@É;A;Ã¹õ¼U¼èªº“¼,“ ±N·|Åã¶Ü NVidia À²¼¼Ð;C

±z²º NVidia ìj\$î³B²z³¼¹¥i¥HjÛ°Ê³B²z MIP ¶K¹j;A¥H´£°²¶x-y±Æ²º§÷½è¶K¹j¶Ç°e®Ä²v;A~Ä
´£~Ñ§ó°²²²À³¥íµ{;j @Ä~à;C

!ý-O;A;B±Ò°Ê;Û°Ê²£¥í²º MIP ¶K¹j@É;A¥@´ÇÀ³¥íµ{;j;¥i~àµL²k¥½½TÄã¥Û;Cn§ó¥½;¹°ÝÄ;A½D´î¥Ö;Û°Ê²£¥í MIP
¶K¹jµ¥~Å²º¼Æ¶q;A²½´´½¼v¹³¥i¥H¥½½TÄã¥Û-°¥îC´î¥Ö MIP ¶K¹jµ¥~Å²º¼Æ¶q³q±`¥i¥H@ø°£§÷½è¶K¹j²º²
£¹i»ô©î;µe±¼¹µö;v°ÝÄD;]ý-O³o¼È«o.°§C®Ä~à;^;C

®e³\±zjî³/4Ü¹îšî³B²z³/4¹©Ò¶î²²¹Ü°Ê³B²z MIP ¶K¹î²è;ijC

±z¶i¶Hjî³/4ÜÂù½u©Ê©Î 8 ±ä½u«Dšj½è MIP ¶K¹î³B²z²è;ijA|ýÂù½u©Ê²è;ij³q±`¶i¶H
´£"Ñšó°²²²®Ä`à;A|Ó«Dšj½è²è;ij«h¶i¶H²£¶íšó°²²²¹/4v¹³«~½è;ijC

®e³\±z½Ö¾ã MIP ¶K¹ªº LOD;]ºè²Ó«x; ^º¾@t;C

,û\$Cºº¾@t±N·|´£"Ñşó;nºº¼v¹³«~½è;A!Ó,ûºººº¾@t«h·|

´£ºªÀ³¶íµ{;ªº@Ä`à;C±z¶i¶H;b;u³|´Í¼v¹³«~½è;v»P;u³|´Í@Ä`à;v¶\$¶;ººªÓ¹w³]º¾@tÈ¶¶¶¶;æ;í¾Ü;C

±zrwÀx!s²q!Ùq³]©wÈ;j]©î;u½õ¾ãÈ;v;^²M³æ;C;î³¼Û;¹²M³æææ²²æ@Ó¶µ¥Ø±N·|±Ò°Ê³]©wÈ;Cn®M¥î³]©w-
È;A½D;î³¼Û;u½T©w;v©î;u®M¥î;v«ö¶s;C

©e³\±z±N¥Ø«e³]©wÈ;]¥]-A;u"ä¥L Direct3D;v"i,Üæè¶(óææ²º³]©wÈ;^Àx;s-°;Úq;u½Ö¾ãÈ;v;CæwÀx;s²º³]©wÈ±N·|
·s¾W"ì-Û¾F²º²M³ææW;C

¡bšä"ì" S©w Direct3D ¹CÀ,²º³]í³]©wÈæ§«á;A½Ð±N³]©wÈÀx;s-°;Úq½Ö¾ãÈ;C³o¾È±z
´N¥i¥H;¡b±Ò°È¹CÀ,æ§«e"³³t²ÖºA Direct3D;A;ÓµL»ÝæÀ§O³]©w" CÓ;í¶µ;C

§R°£¥Ø«e!b²M³æππζ!©w²º;Úq³]©wÈ;C

±N©Ò;³³]©wÈÁÙ;Û"ä¹w³]È;C

ÄäÿÜæ@Ó®e³\±z;Ûq¨ä¥L Direct3D ³]©wÈªª¹ÿ,Üæè¶ó;C

!²z!¶µ¥i¥HÄÜ\$ó¶K¹!¹³-À;]S÷½è¶K¹!¶, -À; ^²ºµwÁés±½è¶K¹!©wS}æè®×;C
öÜ\$ó³o"ÇÈ±N·|ÄÜ\$ó©w,q¶K¹!¹³-À·½²º;ì,m;C¹w³]È»P Direct3D ³W®ææ@P;C!³"Ç³nÁé¥i-à·|
\$Æ±æ;B\$O³B©w,q¶K¹!¹³-À·½;C;p²G«·s©w,q¶K¹!¹³-À·½;A«h!¹ÄpÀ³¥!µ{;²º¼v¹³«~½è±N·'£º²;C±z¥i¥H"ï¥i·Æ'í±
±"i;b¶K¹!¹³-À¥²æW"æ»Pææ¥;ì,mæ\$¶;½Ö¾ä¶K¹!¹³-À·½;C

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|w,Ë²º°O¾4ÐÁé°£¶~;^;C

µù;G ¶i«O`d¶í©ó§÷½è¶K¹Ìx|s°í²º"t²í°O¾4ÐÁé³ì¶j@e¶q;A~O@Ú¾4Ú±z¹q,£¶W|w,Ë²º¹êÁé RAM @e¶q"Ó-
p²â²º;C"t²í RAM ¶V¶j;A±z¶i¶H³]©w²ºË`N¶V¶j;C

¹³]©wË¶Ë®M¶í©ó PCI Áã¶Û¾¹¶¶±¶d;]©Í; b PCI ~Û®e¼Ò;¶U°ð;æ²º AGP Áã¶Û¾¹¶¶±¶d;^;C

žĩ¼Ü!¹žĩ¶µ¥ĩ¥HÃö³-««²½!P~B;C

¥çºÜ;uÃö³- VSYNC;v;A¥!@e³¹q,£¥ß§Y±N¼v¹³´yÃ,;bžÃ¹õ±W;A!ÓµL»Ýµ¥«ÝÃã¥Ü¾¼¹²º;P~B««²½!^±½°T,¹;C³o·|
"ĩ!ĩ@Ø³t²vº²©óÃã¥Ü¾¼¹²º§ó·s²v;A!ý-O¥ĩ-à·²£¥!µøÃ±°Æ§@¥!©M¹!¹³;u¼¹µõ;v²º°ÝÃD;A±q!Ó°§C¼v¹³«~½è;C

!¹¿î¶µ@e³\±z~î CPU ¥i¥H|b¹î§í´¹±ù¶¶}©|³B²z±§«e·Ç³Æ±±î@Ø¼⁄Æi];b««²¹⁄²!P~BÃö³¬@É;^;C
|b¬Y~Ç±;²p±U;A®e³\±²¹w¥ýµÛ;â¹î@Ø¼⁄Æ¶V°²;A!^À³·n±ì;B¹CÀ, ¥x©ÍÁä½Lµ¥, Ë, m²²;u¿é±j©µ¹⁄²w;v´N¶V±[;C
|p²G±z|b²±¹CÀ, @É;A³s±µ;Û±z²²¹q, £±§¿é±j, Ë, m|³©úÁä;^À³©µ¹⁄²w²²²{¶H;A½Ð´î±p!¹È;C

®e³\|b GL_KTX_buffer_region ©μ;ù¥\~à±ò°Ê®É~î¥í¥»¾÷¼v¹³°O¾ÄÁé;C

!ý~O;A;p²G¥í¥í²²¥»¾÷¼v¹³°O¾ÄÁéæÖ©ó 8MB;A«h·|μL²k±ò°ÊÁù¥±©μ;ù¥\~àæä´©;C

!p²GÄö³~²F²Wz±ò°Ê½w½Ä°İ©μ;ù¥\~à¿i¶μ;A;¹³]©w±N²£°_S@¥í;C

©e³\šÖ³t½u©Ê MIP ¶K¹½u©Ê¹LÂo¥\`à±N¥i¥H´£°²À³¥|µ{;²²@Ä`à;A!ý¬O«o·|°§Cα@`Ç¹/4v¹³«~½è;C
|bαj|h¹/4E±;²pαU;A¹/4v¹³«~½è²²°§C`Äα£©úÅã;A!j]¹±z¥í¬à·Qn³z¹L±Ò°Ê¹¹¥\`à`ÓÀð`úšó°²²²@Ä`à;C

!1;ï1μ@e³\ OpenGL "ïÿí«D§;½è¹LÂo¥H´£°a¼v¹³«~½è;C

žĩ¼Ü!žĩŕµŕĩŕHÃö³-ÅX°Êµ{;ĩ-Ŧ"Ç CPU "ĩŕŕ²¼W±j«-«üŦO²²æä´©;C
-Ŧ"Ç CPU æä´©²²ŕŕ[²² 3D «üŦO;A³o"Ç«üŦOŕŕŕH»²ŦU NVidia ¹ŕŕŕB²z³¹"Ã´Ŧ²² 3D
¹CÀ, ©ÎÃ³ŕŕµ{;²²@Ã-à;C!žĩŕµ@e³\±z;BÅX°Êµ{;ŕŕÃö³-Ŧ³o"Ç²²ŕŕ[²² 3D «üŦO²²æä
´©;C³o;Bŕŕŕŕæ@Ã-àŕŕŕ.û©Î-G»Ü±Æ°Ŧ@É«Ü!³ŕŕ;C

!¹¿ïµ¥ÏHSPÂ_→OS_À³,Ó;b OpenGL À³¥íµ{;¡;A«ö·Ó¹w³]È~ï¥í~S©w¡â±m²`«x²º§÷½è¶K¹ï;C

~ï¥í@à±;â±m²`«x±N©I²x~ï¥í Windows @à±¥Ø«e¥¿;b°õ;æ²º;â±m²`«x²º§÷½è¶K¹ï;C

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±z¥i¥H¿ï¼Ü°í¶ø¶Ç°eæè!;;BÄ½¶æè!;©î;Û°Ê¿ï¼Ü;C;Û°Ê¿ï¼Ü@e³\ÄX°Êµ{;;®Û¼Û±z²ºµwÄé²Õ²A"Ó¿ï¼Ü³ï"íæè!;;C

!¹j!µ¥íÁý±z«ü©w!p!ó!b OpenGL ¢¢³B²z««²½!P"BiC

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<ö·Ó¹w³]ÈÄö³¬°£«DÀ³¥íµ{!;©ú½Tn" D±Ò°Ê««²½!P"BiAS_«h¥!±N«O«ùÄö³¬²¬²A;C

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|bšä"ì~S©w OpenGL À³¥íμ{|;²º³|"î³]©wÈα\$«á;A½Ð±N³]©wÈÀx|s-°|Ùq½Õ¾ãÈ;C³o¼È±z
´N¥i¥H|b±Ò°Èμ{|;α\$«e"³³t²ÕºA OpenGL;A|ÓμL»ÝαÀ\$O³]©w"COζi"íμ;C

·Æ´Í±±¨î®e³\±z¬°¿ï©w²º¡â±mÀW¹D½Õ¾ã«G«x;B¹iãñ«x©Î¡±º¿È¿C

¡â±m,É¿¿±±¨î¿¡§U±z;¡bÅã¿Û,Ë,m±W½Õ,É¨Ó·½¼v¹³»P¨ä¿é¿X±§¶¡¿º¿ú«x@t²§¿C¹¿\
¬à;¡b¨î¿¹¼v¹³³B²zÀ³¿¡µ{¡;@É«D±¨¹³¿¡¿A¿¡¿¡¿H;¡bÅã¿Û¾¼¹WÅã¿Û¼v¹³@É«·s²¿¹¼v¹³¡;¡p¬Û±ù¿^¿¡A¨Ã
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¡Ó¿B¿A«Û;h¨î¿¹ 3D ¿[³t¿\¬à²º¹CÀ,µe±³¿«Û·t¿C;¡b©Ò¿³ÀW¹D±±¼W¿[-Û;P²º«G«x©M¿]©Î¡¿¹¿±º¿-
È±N¿¡¿H¨î³o¨Ç¹CÀ,µe±§ó«G±@¨Ç¿A³o¼È±z¿N¿¡¿H²M·¿¬Ý¨É¹CÀ,µe±¿A§Ö¾Öºº±¹CÀ,±F¿C

©e³\±zjî³¼Ü¶Ñ·Æ´í±±´´³²²;â±mÀW¹D;C±z¶i¶H±ÀŞO½Ö³¼ä-õ;â;B²ñ;â©íÁÂ;âÀW¹D©í;P®É½Ö³¼ä³o±TÓÀW¹D;C

±m|â|±½u^{a9}¡š|Áã¥Ü;C;|±½u±N·|b±z½Ö?¼ã¹ñ«×;B«G«×©|;÷°;È®ÉšY®ÉÁÜ\$ó;C

¿i¼Ü!¿i¶µ±N¥i¥H“í“tî;b«·s±Ò°Ê Windows ®É!Û°ÉÁÛi±z!b!¹³B©Ò\$@²º!â±m½Õ¾ã;C
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±zκwÀx!s²q;Ûq;â±m³]©wÈκξ²M³æ;C;î³¼Û;¹²M³æκκ²²κ@Ó¶|μ¥Ø±N·|±Ò°Ê³]©wÈ;C

Áý±z±N¥Ø«e^{âº}!â±m^³]©wÈÀx;s-°;Úq^³]©wÈ;CαwÀx;s^{âº³}]©wÈ±N·|s¼W^ˆˆ-Ú¼F^{âº²}M^³æαW;C

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±N©Ò;³â±mÈÁÙ;ÛµwÁé²º¼t³]©wÈ;C

®e³\±zjî¼Ü±zÅã¥Ü¾¹²³p®É¼Ò!;G

!Û°Ê°»´ú®e³\ Windows ¾½±μ±qÅã¥Ü¾¹²³»´±μ|¬¥¿½T²³p®É,ê°T;C!¹¬°¹w³]-
Ë;C½Ðª`·N;A¬Y`ÇÂÂ;Åã¥Ü¾¹²³i¬à¤£¤ä´©!¹¥\`à;C

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Â÷´²Åã¥Ü¾¹²³p®É©Î DMT ¬O¤@²³,ûÂÅ²³¼Ð·Ç;A|b¬Y`ÇμwÅé¤¤¤´μM`Ï¥î¹¹¼Ð·Ç;C;p²G±z²³μwÅén`D`Ï¥î
DMT;A½Ð±ò°Ê¹¿i¶μ;C

±N NVidia QuickTweak 1ÿÛ·s¼WÛ Windows µs@!C;C

!1ÿÛ@e³\±z³z¹Lα@Óæè«K³§ÖÄã;ÿi³æ;A;µ\$Ö³t;ajv@MÿÍ©Ò;³Ûq Direct3D;BOpenGL ©Í!â±m³]©w-
Ë;C!¹ÿi³æÁÛÿ]stÿÍ©óÁÛ¹w³]Ë»P!s"ú;µæ³@e-ÄãÿÛ¼¹;v¹ÿÛæè!ó³µÿØ;C

©e³\±z!b Windows πu\$@!CαW;Aζi³4Ü¥í¥H¥N³í QuickTweak π½¥íμ{!;³ºi¥Ü;C
±q²M³æπζi³4Ü±znÅã¥Ü³ºi¥Ü;CμM«áζi³4Ü;u½T©w;v©Í;u©M¥í;v¥H\$ó·sπu\$@!Cπ³ºi¥Ü;C

Ãð³¬¡¹ï,Ûæè¶ð`ÃÄx¡s©Ò§@ººÄÛ§ó;A¶H«K±z¡b¡u`ä¶Læº@e¡v¹ï,Ûæè¶ðææ
¿ï¾Û¡u½T©w¡v©Î¡u©M¶í¡v©É¡A`ï³o`Ç³]©wÈ¶í©Ä¡C

Åy±z\$PÂ_pπ@Ó·Æ¹««ö¶s·|!b³æ«öπu\$@|C¹!¥Ü®ÉÅã¥Ü¿i³æ;C

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!pªG±zn“í¥í 3D ©ÄªG“ÓÄã¥Üæu\$@!Czĩ³æ;A½Đzĩ¼Ü!¹zĩ¶µ;C

!b¥HSC©ó³!°ãä´©,ÑªR«x²º,ÑªR«x°ó;æ®É;A³o`Ç;ï¶μ®e³\±z\$PÂ_¼v¹³; b¥ºOÂã¥Ü¾¼¹κWººÂã¥Ü;ì,m;C

½Ð¨ï¶ï½bÀY«ö¶½Ö¾ãÄã¶Ü¾¼¹W²º@à±Äã¶Üï,mjC

© Ú¾¼Ú¥Ø«e²º,Ñ²R«x»PŞó·s²v;A±N@à±«³]!Ü"ä¹w³]!ì,m;C

3o`Çziïµ@e³\±z;î¼Ü;é¥XÄâ¥Ü,Ë,m;J@Ú¼ÚÄâ¥Ü¼¹±¶d©Òæä´©²²,Ë,m;A±z¥i¥H;î¼ÜÄâ¥Ü¼¹;B¼Æ;î¥-
²OÄâ¥Ü¼¹©î¹µø;^;C

¶}±ò¤@Ó¥i|b¨¨ä¤¤¬º²{¥fªºÃã¥Ü,Ë,m!Ûq³]©wÈªºμøμ;C

ÀãÛí©ó¹qmø;é¥Xªº¥Ø«e®æ¡;»P°éSO³]©wÈ;C

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!12M³æ@e³\±z@Ú³/4Ú!Ûπν©Ò©~!í²º°é@a"Óζĩ³/4Û¹qμθζέ¥X@æ!;C

μù;G !p²G±z©Ò!b²º°é@a"5!³!C!b²M³æππ;A±zÀ³,Óζĩ³/4ÛÁ+!Ûπν©Ò!b!a°ĩ³!ñ²º°é@a;C

“İjİ©w²⁰@æ;ij”-°ŋ}¼÷¹w³]È;C

!p^aG!b±Ò°Ê¹q,£@É¥u!³¹qμø³s±μ;ÜÄã¥Ü^{3/4}1xŋ±

¥d;A!¹İjİμ¥i^{1/2}T«O±Ò°Ê¹Lμ{Äã¥Ü²⁰©Ò!³İÄ¹δ°T@§§;¥H±z¹qμø©Òæä´©²⁰¥İ^{1/2}T@æ;ijÉ¥X;C

¥iÁý±z«ü©w¶Ç°e!Ü¹qμø²º¿é¥X°T,¹Ãþ«¬;C

!pªG±z"ã!³¥¿½T²º³s±μ¾⁄⁴¹³s±μ½u;A«h S μø°T¿é¥X³q±`·|πñ½Æ;Xμø°T¿é¥X

‘£"Ñ§ó°ª«~½è²º¿é¥X@ÃªG;C!pªG±zμLªk½T©wÀ³,Ó«ü©wªº°T,¹Ãþ«¬;A½D¿¿¾Ü;Ô°Ê¿¿¾Ü³]©w;C

½Ð¨í¶í½bÀY«ö¶s½Ö¾ã¹qmøW²º@à±Áã¶Û;ì,m;C

μù;G |pªG¹qmøµe±;]½Ö¾ã¹L«x;Ó¶X²{Áã¶ÛÄø¶Á©îªÁ¶Öªº°ÝÄD;A±z¶u»Ýµ¶«Ý 10 -íÄÁ;Aµe±±N·|
|Û°Êªð|^¨ä¹w³];ì,m;CµM«á;A±z¶i¶H«·s¶i;æ½Ö¾ã¹C¶;½T©w;ì@à±±§«á;A±z¶²¶·;b 10
-íÄÁªº«ö¶U;u½T©w;v©Î;u@M¶í;v«ö¶s;A¶HÀx;s_Ó³]©wÈ;C

© Ú¾Ú¥Ø«e²º, Ñ²R«x;A;|b¹qμø±W±N©à±«³]!Ü¨ä¹w³]!ì, m;C

½Ð“İŸİ³o”Ç±±”Ÿ½Ö¼ă¹qμø¼v¹³âº«G«x»P¹;©M«x;C

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