,±,ÌflfvfVf‡f",ĺftfHfO fe[[fuf< fGf~f...f@[[fVf‡f",ðflf"/flft,É,·,é,½,ß,ÉŽg—p,³,ê,Ü,·[]B

Direct3D ,Å,Í[AD3D fn[[fhfEfFfA fAfNfZf‰f $\mathbb{C}$ [[fVf‡f",ª‰Â"\,ÈfffBfXfvf $\mathbb{C}$ fC fAf\_fvf^,ª[Afo[[fefbfNfX ftfHfO,Ü,½,Ífe][fuf< ftfHfO,Ì,¢,\_,ê,©,ðŽÀ]s,Å,«,é,±,Æ,ð[]ð $\mathbb{C}$ ],Æ,µ,Ä,¢,Ü,·[]B^ê•",ÌfQ][f€,Í[]AD3D fn[[fhfEfFfA,Ì][«"\,ð[]³Šm,ÉŠm"F,·é,±,Æ,È,[]Afe][fuf< ftfHfO fTf][[[fg,ð—v<],µ,Ü,·]B,±,ÌflfvfVf‡f",ð'l'ð,·,ê,Î[]A,±,ê,ç,ÌfQ][f€,à,²Žg—p,Ì NVIDIA fOf‰ftfBfbfNfX fvf[]fZfbfT,Å-â'è,È,-ŽÀ]s,Å,«,Ü,·]B

,±,ÌflfvfVf‡f",É,æ,è[]Afhf‰fCfo,Ì[]V,µ,¢ DirectX <@"\,ð-³Œø,É,µ,Ü,·[]B

^È'O,Ìfo□[fWf‡f",Ì DirectX ,ðŽg,¤,æ,¤,É□ì,ç,ê,½fQ□[f€,Ì'†,É,Í□Afhf‰fCfo,Å—LŒø,É,È,Á,Ä,¢ ,éfCf"fXfg□[f<□ï,Ý,Ì DirectX 6 ,¨,æ,Ñ 7 ,Å,Í□³□í,ÉŽÀ□s,Å,«,È,¢,à,Ì,ª, ,è,Ü,·□B,±,ÌflfvfVf‡f",ð'l'ð,·,é,Æ□Afhf ‰fCfo,ð<□§"l,É DirectX 5 ŒÝŠ·f,□[fh,ÅŽÀ□s,µ□AŒÃ,¢fQ□[f€,ð□³□í,ÉŽÀ□s,³,¹,é,±,Æ,ª,Å,«,Ü,·□B

<N" ® ,Å,«,È,¢∏A, ,é,¢,Í[]³]í,ÉŽÀ]]s,Å,«,È,¢,æ,¤,ÈŒÃ,¢fQ][f€,ðŽÀ]]s,·,é[]ê[]‡,Í[]A,±,ÌfIfvfVf‡f",ð'I'ð,µ,Ä,-,¾,³,¢]B  $Z-fofbftf@, i[[``x, \delta fAfvfŠfP[[fVf\ddaggerf", ^{a}-v<[], \cdot, e[[``x, ÉŽ©'``®``I, É'^2[]`®, \cdot, e, æ, ¤, Éfn[[fhfEfFfA, \delta[]Y'e, \mu, Ü, \cdot]]B$ 

"Á'è,Ì Z-fofbftf@□[("x,ð•K—v,Æ,·,é□ê□‡,ð□œ,¢,Ä□A'Ê□í,Í,±,ÌflfvfVf‡f",ð—LŒø,É,µ,Ä,¨,«,Ü,·□B,± ,ÌflfvfVf‡f",𖳌ø,É,·,é,Æ□AZfofbftf@,Ì□ì<Æ□[("x,ªŒ»□Ý,Ìfn□[fhfEfFfA□Ý'è,Æ^ê'v,µ,È,¢fAfvfŠfP□[fVf‡f",Í,·,×,Ä"®□ì,µ,È,,È,è,Ü,·□B •Ê,Ì[]['wfofbftf@•û-@,ð—LŒø,É,μ,Ü,·[]Β

16 frfbfg fAfvfŠfP□[fVf‡f",ÌŽÀ□sŽž,É□A^Ù,È,éfn□[fhfEfFfA<@□\,Å□['wfofbftf@,ð□s,¤,æ,¤,É□Ý'è,µ,Ü,·□B,± ,Ì□Ý'è,ð—LŒø,É,·,é,Æ□A,æ,è□,,¢•iŽ¿,Å 3D fCf□□[fW,ÌfŒf"f\_fŠf"fO,ð□s,¤,±,Æ,ª,Å,«,Ü,·□B Direct3D Žg—pŽž,É NVIDIA ,Ìf⊡fS,ð—LŒø,É,µ,Ü,·⊡B

,±,Ì□Ý'è,ð—LŒø,É,∙,é,Æ□ADirect3D fAfvfŠfP□[fVf‡f",ÌŽÀ□sŽž,É□A‰æ–ʉº‹÷,É NVIDIA ,Ìf□fS,ª•\ ަ,³,ê,Ü,·□B NVIDIA fOf‰ftfBfbfNfX fvf[]fZfbfT,Í[]AMip f}fbfv,ðŽ©"®"I,É[]¶[]¬,·,é,±,Æ,ÅfofX $\oplus$ o—R,ÌfefNfXf`ff"]'—  $\oplus a_{1,\delta}$ []ã,°[]AfAfvfŠfP[[fVf‡f",ÌfpftfH[][f}f"fX,ð $\oplus$ ü[]ã,³,¹,é,±,Æ,ª,Å,«,Ü,·[]B

 $\begin{array}{l} & , \mu, \otimes, \mu^{\hat{e}} \bullet'', \hat{I} f A f v f \check{S} f P [[f V f \ddagger f', Å, \hat{I} \square A Mip f \} f b f v, \hat{I} \check{Z} \otimes'' \otimes \square \P [] \neg, ^{a} - L \textcircled{e} \sigma, \acute{E}, \acute{A}, \ddot{A}, ¢, \acute{e}, \pounds f C f \square [[f W, ^{a} \square ^{3} \square (, \acute{E} \bullet \setminus \check{Z} \mid, ^{3}, \acute{e}, \acute{e}, \pounds, \acute{e}, \pm, \pounds, \check{A}, ], \dot{A}, \dot{$ 

fOf‰ftfBfbfNfX fvf□fZfbfT,ÅŽg—p,·,鎩"® Mip f}fbfsf"fO-@,ð'l'ð,Å,«,Ü,·□B

2 -{[]ü-@,Ü,½,Í 8 f^fbfv^Ù•û[]«-@ MIP f}fbfsf"fO-@,ð'l'ð,Å,«,Ü,·[]B2 -{[]ü-@,Å,Í^ê"Ê"I,ÉfpftfH[][f}f"fX,ªŒü[]ã,µ[]A^Ù•û[]«-@,Å,ÍfCf[][][fW•iŽ¿,ªŒü[]ã,µ,Ü,·[]B Mip f}fbfv,Ì LOD (Level of Detail) fofCfAfX,ð'2□®,Å,«,Ü,·□B

•Û'¶,μ,½fJfXf^f€□Ý'è (,Ü,½,ĺ□uTweak□v) ,ÌfŠfXfg□B,±,ÌfŠfXfg,©,ç□€–Ú,ð'l'ð,·,é,Æ□A□Ý'è,ª•\ ަ,³,ê,Ü,·□B□Ý'è,ð"K—p,³,¹,é,É,ĺ□A[OK] ,Ü,½,ĺ ["K—p] f{f^f",ð'l'ð,µ,Ü,·□B Œ»[]Ý,Ì[]Ý'è ([Direct3D,Ì[]Ú[]×[]Ý'è] f\_fCfAf[]fO,Ì[]Ý'è,àŠÜ,Þ) ,ðfJfXf^f€[]uTweak[]v,Æ,µ,Ä•Û'¶,µ,Ü,·[]B•Û'¶,µ,½[]Ý'è,Í[]ã<L,ÌfJfXf^f€[]Ý'èfŠfXfg,É'ljÁ,³,ê,Ü,·[]B

"Á'è,Ì Direct3D fQ[[f€

,Å□Å"K,È□Ý'è,ªŒ©,Â,©,Á,½□ê□‡□A,»,Ì□Ý'è,ðfJfXf^f€□Ý'è,Ì□uTweak□v,Æ,µ,ĕۑ¶,µ,Ä,¨,,Æ□AfQ□[f€ ,ðŠJŽn,·,é′O,É,·,Î,â, Direct3D,ª□Ý'è,Å,«,é,Ì,Å□AŠefIfvfVf‡f",ðŒÂ•Ê,É□Ý'è,·,éŽèŠÔ,ª□È,⁻,Ü,·□B fŠfXfg,ÅŒ»∏Ý'l'ð,³,ê,Ä,¢,éʃJfXf^f€∏Ý'è,ð∏í∏œ,μ,Ü,·∏B

,∙,×,Ä,Ì∏Ý'è,ð∏‰Šú∏Ý'è'I,É–ß,µ,Ü,·∏B

Direct3D ,Ì′ljÁ□Ý'è,ðfJfXf^f}fCfY,Å,«,éf\_fCfAf□fO,ð•\ަ,μ,Ü,·□B

 $,\pm, \hat{I}fIfvfVf\sharp f^{*}, \hat{A} \Box AfefNfZf < (fefNfXf^{f}fGf Gf Gf Gf f^{*}fg) - p, \hat{I}fn \Box [fhfEfFfA fefNfXf^{f}, \hat{I}^{*}z^{\prime}u \Box \hat{Y}^{\prime}e, \delta \bullet \hat{I} \Box X, \mu, \ddot{U}, \cdot \Box B$ 

 $\begin{array}{l} ,\pm, \hat{e}, \varsigma, \hat{i}' I, \delta \bullet \tilde{I} \square X, \cdot, \acute{e}, \pm, \mathcal{E}, A \square A \mathbb{C}^{3}, \hat{I} fef NfZf <, \overset{a}{} ' \hat{e} <`, \overset{a}{}, \hat{e}, \acute{e} \square \hat{e} \square \check{S}, \delta \bullet \tilde{I} \square X, \mu, \ddot{U}, \cdot \square B \square \overset{\delta}{} \\ \tilde{U} \land \square \dot{E} \square \check{S}, \acute{e}, \ddot{U}, \cdot \square B \Pi \langle ft fg f E f F f A, \dot{I}' +, \acute{E}, \dot{I} \square A \mathbb{C}^{3}, \hat{I} fef NfZf <, \delta, ¢, , , \hat{e}, \&, \dot{I} \square \hat{e} \square \check{S}, \acute{E}' \grave{e} <`, \cdot, \acute{e}, \pm, \mathcal{E}, \delta - v < \square, \cdot, \acute{e}, \dot{a}, \dot{I}, \dot{a}, , \dot{e}, \ddot{U}, \cdot \square B, \\ \pm, \hat{e}, \varsigma, \hat{I} f A f v f \check{S} f \square [I f V f \pm f'', \dot{A}, \dot{I} \square A \mathbb{C}^{3}, \hat{I} fef N f Z f <, \delta \square \check{A} <', \cdot, \acute{e}, \pm \\ \end{array}$ 

,±,ê,É,æ,è□A(fffBfXfvfŒfC fAf\_fvf^,É"<□Ú,³,ê,½f□f,fŠ,É'ljÁ,³,ê,½) fefNfXf`ff fXfgfŒ□[fW p,ÉŽw'è,³,ê,½—e—Ê,Ü,ÅfVfXfef€ f□f,fŠ,ð—~—p,Å,«,é,æ,¤,ÉfOf‰ftfBfbfNfX fvf□fZfbfT,Ì□Ý'è,ð□s,¤,± ,Æ,ª,Å,«,Ü,·□B

**f**□**f**,: fefNfXf`ff fXfgfŒ□[fW—p,ÉŽg—p,Å,«,éfVfXfef€ f□f,fŠ,Ì□Å'å—e—Ê,Í□AfRf"fsf... □[f^,É"<□Ú,³,ê,½•¨—□ RAM ,Ì—e—Ê,ÉŠî,Ã,¢,ÄŽZ□o,³,ê,Ü,·□BfVfXfef€ RAM ,Ì—e—Ê,ª'□ ‰Á,·,é,Æ□A□Ý'è,Å,«,é'I,à'å,«,,È,è,Ü,·□B

,±,Ì□Ý'è,Í□APCI fffBfXfvfŒfC fAf\_fvf^ (,Ü,½,Í PCI ŒÝŠ·f,□[fh,ÅŽg—p,μ,Ä,¢,é AGP fffBfXfvfŒfC fAf\_fvf^) ,É,Ì,Ý"K—p,³,ê,Ü,·□B ,±,ÌflfvfVf‡f",ðʻl'ð,∙,é,Æ∏AVSYNC ,ª–³Œø,É,È,è,Ü,·∏B

f,fjf^,Ì□,'¼fŠfgfŒ□[fX,Ì"<sup>~</sup>Šú,ð'Ò,½,\_,É□AfCf□□[fW,ð,·,Î,â,‰æ-Ê,ÉfŒf"f\_fŠf"fO,Å,«,Ü,·□B,± ,ÌflfvfVf‡f",É,æ,è□AftfŒ□[f€ fŒ□[fg,ð‰æ-Ê,ÌfŠftfŒfbfVf...fŒ□[fg,æ,è'å,«,-□Ý'è,Å,«,Ü,·,ª□AfCf□□[fW•iŽ¿,ª'¹,È,í,ê,é,Ì,Å□A•\ަ,ɉe<¿,ª□o,½,è•\ަ,Ì'[,ª□Ø,ê,é,±,Æ,ª, ,è,Ü,·□B ,±,ÌflfvfVf‡f",É,æ,è□A"Á'è,Ì D3D fAfvfŠfP□[fVf‡f",ÅŽg—p,·,éfAf"f`fGfCfŠfAfX,Ì—Ê,ðŒ^'è,µ,Ü,·□B fAf"f`fGfCfŠfAfX,Æ,Í□A3D flfufWfFfNfg,̉□,ÉŽž□ÜŒ©,ç,ê,é□uŠK'i□ó□v,ÌfGftfFfNfg,ð□Å□¬ŒÀ,É—} ,¦,é<Z□p,Å,·□BfAf"f`fGfCfŠfAfX,Ì—Ê,Í□AŠ®'S,Èflft,©,çfAfvfŠfP□[fVf‡f",ÅŽÀ□s,Å,«,é□Å'å— Ê,Ü,Å'I'ð,Å,«,Ü,·□B ,±,ÌflfvfVf‡f",Í□AfAf"f`fGfCfŠfAfX,ð'¼□ÚfTf|□[fg,µ,Ä,¢,È,¢fAfvfŠfP□[fVf‡f",ÅfAf"f`fGfCfŠfAfX,ð<□§"I,ÉŽg —p,·,é,½,ß,Ì,à,Ì,Å,·□B

 $fAf"f^{f}GfCfŠfAfX,\delta=\frac{3}{4}Sm, ffTf|[[fg,\mu,Ä,\phi,È,¢^{e}",]fAfvfŠfP[[fVf‡f",Å,[]AfCf[][[fW,ª]][(fe),a]](fe), ff,a,e,b,c]] = 1, fffvfVf‡f",Å,f] = 1, fffvfVf{f}f] = 1, fffvfVf{f}$ 

,±,ÌflfvfVf‡f",É,æ,è□AfOf‰ftfBfbfNfX f`fbfv,Å□^—□,³,ê,é'O,É CPU ,ª□€"õ,·,éftfŒ□[f€,Ì□",ð□§ŒÀ,µ,Ü,· (VSYNC ,³-³Œø,É,È,Á,Ä,¢,é□ê□‡)□B

, ,ç,©,¶,ßfŒf"f\_fŠf"fO,³,ê,éftfŒ□[f€,Ì□",ª'½,-,È,é,Æ□AfWf‡fCfXfefBfbfN□AfQ□[f€fpfbfh□AfL□[f{□[fh,È,Ç,ÌfffofCfX,Ö,Ì"½‰ž,É,¨,⁻,é□u"ü—ĺf ‰fO□v,ª'·,,È,é□ê□‡,ª, ,è,Ü,·□B

 $\begin{array}{l} fQ[[f{\ }'t, \acute{E}]AfRf"fsf...[[f^, \acute{E}]\acute{U}'\pm, ^3, \acute{e}, \ddot{A}, \ensuremath{ c}, \acute{e}"\ddot{u}-\acute{l}fffofCfX, \ensuremath{ c}, \ensuremath{ c}, \acute{e}'' \overset{1}{_{2}} & \overset{3}{_{4}}, \ensuremath{ c}, \ensuremath{ c}, \ensuremath{ c}, \acute{e}'' \overset{1}{_{2}} & \overset{3}{_{4}}, \ensuremath{ c}, \ensuremath{ c},$ 

 $fhf \% fC fo, \text{\& OpenGL Šg'}_{<@"\,} \textbf{``GL_KTX_buffer_region}, \text{``dŽg}, \text{``e}, \text{``e}, \text{``e}, \text{``H}, \text{``U}, \text{``B}, \text{``e}, \text{`e}, \text{``e}, \text{`e}, \text{``e}, \text{``e}, \text{``e}, \text{``e}, \text{``e}, \text{``e}, \text{`e}, \text{``e}, \text{``e}, \text{``e}, \text{`e}, \text{`$ 

$$\label{eq:GL_KTX_buffer_region Šg'} \begin{split} & \mathsf{GL}_KTX\_buffer\_region Šg'} \\ & \mathsf{E}_{\mathsf{G}} = \mathsf{L}_{\mathsf{G}} \\ & \mathsf{E}_{\mathsf{G}} \\ & \mathsf{E}_{\mathsf{G}} \\ & \mathsf{E}_{\mathsf{G}} \\ & \mathsf{G}_{\mathsf{G}} \\ & \mathsf{G}_$$

, $\frac{1}{2}$ , $\frac{3}{4}$ , $\mu$  A — ~ — p,Å, «, éf [] [f]f < frfffl f]f,fŠ,ª 8MB ^ȉ<sup>0</sup>,Ì ] ê ] ‡ ] Afff...fAf < fvf Œ ] [f"Šg'£ <@"\fTf| ][fg,Í — L Œø,É,È,È,Ü,<sup>1</sup>,ñ ] B

,±,Ì<code>[Y'è,Í<code>[A<code>[</code>ã<L,Ì <code>]</code>ubuffer region Šg'£<@"\,ð—LŒø,É,·,é<code>[</code>vflfvfVf‡f",ª-³Œø,É,È,Á,Ä,¢,é<code>[]ê<code>[]‡,ÍŒø ‰Ê,ª</code>, ,è,Ü,¹,ñ<code>[</code>B</code></code></code>

,±,ÌflfvfVf‡f",É,æ,è□AfCf□□[fW•iŽ¿,ðŒü□ã,³,¹,é,½,ß,Ì^Ù•û□«ftfBf‹f^fŠf"fO,ð OpenGL ,ÅŽg p,Å,«,é,æ,¤,É,μ,Ü,·□B ^ê•",Ì CPU ,Å,Í[ANVIDIA fOf‰ftfBfbfNfX fvf[]fZfbfT,ð•â[]•,µ,Ä 3D fQ[[f€, ,âfAfvfŠfP][fVf‡f",ÌfpftfH][f}f"fX,ðŒü[]ã,<sup>3</sup>,<sup>1</sup>,é'ljÁ 3D -½—ß,ðfTf|][fg,µ,Ä,¢,Ü,·[]B,±,ÌflvfVf‡f",É,æ,è[]Afhf‰fCfo,Å,Ì,±,ê,ç,Ì'ljÁ 3D -½—ß,ÌfTf|[][fg,ª- <sup>3</sup>Œø,É,È,è,Ü,·[]BfpftfH][f}f"fX,ð"äŠr,·,é[]ê[]‡,âfgf‰fuf<fVf...[][fefBf"fO,ð[]s,¤[]ê[]‡,ɕ֗ ~,ÈflfvfVf‡f",Å,·]]B

,±,ÌflfvfVf‡f",É,æ,è□AOpenGL fhf‰fCfo,É'Î ‰ž,μ,½□厞fAf"f`fGfCfŠfAfX,ðfRf"fgf□□[f<,μ,Ü,·□BfAf"f`fGfCfŠfAfX,Æ,ĺ□AflfufWfFfNfg,Ì ‰□,ÉŽž□ÜŒ©,ç,ê,é,¬,´,¬,´,μ,½□uŠK'i□ó□v,ÌfGftfFfNfg,ð—},¦,Ä—ÖŠs,ðŠŠ,ç,©,É,·,é<Z□p,Å,·□B1.5 x 1.5 -@,ÌfAf"f`fGfCfŠfAfX,Å,ĺfpftfH□[f}f"fX,ð—D□æ,μ□A2 x 2 -@,Å,ĺfCf□□[fW•iŽ¿,ð—D□æ,μ,Ü,·□B fhf‰fCfo,ÅfXfefŒfl fsfNfZf< ftfH□[f}fbfg,ÌfGfNfXf|□[fg,ª‰Â"\,É,È,è,Ü,·□BOpen GL fAfvfŠfP□[fVf‡f",Å□AfXfefŒfl,ðŽg—p,μ□AfXfefŒfl fVfffbf^□[ fKf‰fX,ð—LŒø,É,∙,é,±,Æ,ª,Å,«,Ü,·□B fhf‰fCfo,Åfl□[fo□[fŒfC fsfNfZf< ftfH□[f}fbfg,ÌfGfNfXf|□[fg,ª‰Â"\,É,È,è,Ü,·□BOpenGL fAfvfŠfP□[fVf‡f",Åfl□[fo□[fŒfC,ðŽg—p,·,é,±,Æ,ª‰Â"\,É,È,è,Ü,·□B ,±,ÌflfvfVf‡f",É,æ,è<code>[AfCf]][[fW•iŽ</code>;,ðŒü<code>[ã,³,¹,é,½,ß,Ì^Ù•û</code>]«ftfBf‹f^fŠf"fO,ð OpenGL ,ÅŽg—p,Å,«,é,æ,¤ ,É,µ,Ü,·<code>[B,±,Ì</code>‹@"\,ð—LŒø,É,·,é,Æ<code>[AfCf]][fW•iŽ</code>;,ÍŒü<code>[ã,µ,Ü,·,ª]AfpftfH</code>][f}f"fX,Í'ቺ,·,é,Ì,Å']<sup>^</sup>Ó,µ,Ä,-,¾,³,¢]B

,±,Ì<@''\,ð—LŒø,É,·,é,Æ□Afhf‰fCfo,ĺ 1 ,Â,ÌfofbfN fofbftf@,Æ 1 ,Â,Ì□['wfofbftf@,ð•\ަ,Æ"<sup>-</sup>,¶ ‰ð'œ"x,ÅŠ,,,è"-,Ä,Ü,·□B

 $`\frac{1}{2}\]", \hat{I}fEfBf"fhfE, \hat{}\_]\hat{}\_], \hat{}_, \hat{e}, \hat{e}fAfvfŠfP\_[fVf\ddaggerf", \hat{A}, \hat{}\_A, \pm, \hat{\epsilon}, \hat{\varsigma}, \hat{i} \bullet \hat{u}, \hat{}_{a}frfffI f\_f, fŠ, \delta @ m-i"I, \acute{E}Žg-p, \hat{A}, «, Ü, \cdot\_B$ 

,±,Ì‹@"\,ð-³Œø,É,·,é,Æ□AOpenGL fhf‰fCfo,ĺfAfvfŠfP□[fVf‡f",Å□ì□¬,³,ê,é,·,×,Ä,ÌfEfBf"fhfE,ÉfofbfN fofbftf@,Æ□['wfofbftf@,ðŠ,,,è"-,Ä,Ü,·□B

'½□",ÌfEfBf"fhfE,ðŽg—p,∙,é OpenGL fAfvfŠfP□[fVf‡f",Å,Í□A,±,Ì‹@"\,ðŽg p,∙,é,ÆfpftfH□[f}f"fX,ªŒü□ã,µ,Ü,·□B ʻl'ð,μ,½ OpenGL fAfvfŠfP□[fVf‡f",É□Å"K,È□Ý'è,ð□s,¢,Ü,·□B

,±,ÌflfvfVf‡f",É,æ,è[]A[]‰Šú[]Ý'è,Å OpenGL fAfvfŠfP[[fVf‡f",ª'Á'è,Ìf]f‰[[[[("x,ÌfefNfXf`ff,ðŽg p,∙,é,©,Ç,¤,©,ðŒ^'è,µ,Ü,·∏B

 $[] ufffXfNfgfbfv, ] f]f‰[[[["x,ðŽg-p]v,Å,I]AWindows fffXfNfgfbfv, ] @w]YZg-p, \mu, Ä, ¢, éf]f$ ‰[[[["x,ÌfefNfXf`ff,ð]í,ÉŽg—p,μ,Ü,·]B

**□u□í,É 16 bpp,ðŽg—p**□v,¨,æ,Ñ**□u**□**í,É 32 bpp,ðŽg—p**□v flfvfVf‡f",Å,Í□AfffXfNfgfbfv,Ì□Ý'è,ÉŠÖ,í,ç, <u>□</u>AŽw'è,³,ê,½fJf‰□[□["x,ÌfefNfXf`ff,ð<□§"I,ÉŽg—p,μ,Ü,·□B

,±,ÌflfvfVf‡f",É,æ,è□Aftf‹fXfNfŠ□[f" OpenGL fAfvfŠfP□[fVf‡f"—p,Ìfofbftf@ ftfŠfbfv f,□[fh,ðŒ^'è,µ,Ü,·□B □ufuf□fbfN"]'—-@£□A¢fy□[fW ftfŠfbfv-@£□A

$$\begin{array}{l} & \langle \check{Z} @ \overset{\circ}{``} \circledast \overset{\circ}{`I} \overset{\circ}{\delta} \overset{\circ}{\square} v, @, \zeta \overset{\circ}{,} \overset{\circ}{I} \overset{\circ}{,} \overset{\circ}{\square} \overset{\circ}{,} \overset{\circ}{\square} B \overset{\circ}{\square} u \check{Z} @ \overset{\circ}{``} \circledast \overset{\circ}{`I} \overset{\circ}{\delta} \overset{\circ}{\square} v, \mathring{A}, \begin{split} & (\square A fn \square [fhf E fF fA, \grave{I} \square \backslash \square \neg, @, \varsigma fh f \% f C fo, \grave{a} \square \mathring{A} ``K, \grave{E} \check{Z} \grave{e} & (\square A fn \square (fh fE fF fA, \grave{I} \square \backslash \square \neg, @, \varsigma fh f \% fC fo, \grave{a} \square \mathring{A} ``K, \grave{E} \check{Z} \grave{e} & (\square A fn \square (fh fE fF fA, \grave{I} \square \backslash \square \neg, @, \varsigma fh f \% fC fo, \grave{a} \square \mathring{A} ``K, \grave{E} \check{Z} \grave{e} & (\square A fn \square (fh fE fF fA, \grave{I} \square \backslash \square \neg, @, \varsigma fh f \% fC fo, \grave{a} \square \mathring{A} ``K, \grave{E} \check{Z} \grave{e} & (\square A fn \square (fh fE fF fA, \grave{I} \square \backslash \square \neg, @, \varsigma fh f \% fC fo, \grave{a} \square \mathring{A} ``K, \grave{E} \check{Z} \grave{e} & (\square A fn \square (fh fE fF fA, \grave{I} \square \backslash \square \neg, @, \varsigma fh f \% fC fo, \grave{a} \square \mathring{A} ``K, \grave{E} \check{Z} \grave{e} & (\square A fn \square (fh fE fF fA, \grave{I} \square \backslash \square \neg, @, \varsigma fh f \% fC fo, \grave{a} \square \mathring{A} ``K, \grave{E} \check{Z} \grave{e} & (\square A fn \square (fh fE fF fA, \grave{I} \square \backslash \square \neg, @, \varsigma fh f \% fC fo, \grave{a} \square \mathring{A} ``K, \grave{E} \check{Z} \grave{e} & (\square A fn \square (fh fE fF fA, \grave{I} \square ) ) \\ & (\square A fn \square (fh fE fF fA, \grave{I} \square ) ) (\square A fn \square (fh fE fF fA, \grave{I} \square ) ) (\square A fn \square (fh fE fF fA, \grave{I} \square ) ) \\ & (\square A fn \square (fh fE fF fA, \grave{I} \square ) ) (\square A fn \square (fh fE fF fA, \grave{I} \square ) ) (\square A fn \square (fh fE fF fA, \grave{I} \square ) ) \\ & (\square A fn \square (fh fE fF fA, \grave{I} \square ) ) (\square A fn \square (fh fE fF fA, \grave{I} \square ) ) (\square A fn \square (fh fE fF fA, \grave{I} \square ) ) \\ & (\square A fn \square (fh fE fF fA, \grave{I} \square ) ) (\square A fn \square (fh fE fF fA, \grave{I} \square ) ) ) (\square A fn \square (fh fE fF fA, \grave{I} \square ) ) ) \\ & (\square A fn \square (fh fA fA \cap (fh \square (fh fA \cap (fh A \cap (fh \square (fh A \cap (fh A \cap$$

,±,ÌflfvfVf‡f",Å,Í∏AOpenGL ,Å,Ì□,'¼"⁻Šú,Ì□^—□∙û–@,ðŽw'è,μ,Ü,·□B

 $[]\mathbf{u}[]\mathbf{i},\mathbf{\acute{f}flft}[]\mathbf{v},\mathbf{\acute{A}},\mathbf{\acute{I}}]\mathbf{A},\cdot,\times,\mathbf{\ddot{A}},\mathbf{\grave{I}} \text{ OpenGL } fAfvfŠfP[[fVf\sharpf",\mathbf{\acute{A}}],'1/4"-`Šú,^2[]\mathbf{i},\mathbf{\acute{E}}-^3Œø,\mathbf{\acute{E}},\mathbf{\acute{E}},\mathbf{\acute{e}},\mathbf{\ddot{U}},\cdot]]B$ 

**□u**□**‰Šú**□**Ý'è,Å,ĺflft**□**v**,Å,ĺ□A—LŒø,É,·,é,æ,¤fAfvfŠfP□[fVf‡f",©,ç-¾Šm,É—v<□,³,ê,Ä,¢ ,é,Æ,«^ÈŠO,ĺ□A□,'¼"Šú,ð-³Œø,É,µ,Ä,¨,«,Ü,·□B

 $\label{eq:constraint} \begin{array}{l} & \left[ \textbf{u} \right] \textbf{``} \textbf{``}$ 

$$\begin{split} & (E*)[\dot{Y},\dot{I}]\dot{Y},\dot{e},\deltafJfXf^{f}[\dot{Y},\dot{e},\dot{I}]]uTweak[]v,\mathcal{A},\mu,\ddot{A}\bullet\hat{U}^{\prime}\|,\mu,\ddot{U},\cdot]]B\bullet\hat{U}^{\prime}\|,\mu,\frac{1}{2}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}<L,\dot{I}JJfXf^{f}[\dot{Y}'\dot{e},\dot{I}]]\tilde{a}$$

, ,é OpenGL

fAfvfŠfP□[fVf‡f",Å□Å"K,È□Ý'è,ªŒ©,Â,©,Á,½□ê□‡□A,»,Ì□Ý'è,ðfJfXf^f€□Ý'è,Ì□uTweak□v,Æ,µ,ĕۑ¶,µ,Ä,¨ ,,Æ□Afvf⊡fOf‰f€,ðŠJŽn,·,é'O,É,·,Î,â, OpenGL ,ª□Ý'è,Å,«,é,Ì,Å□AŠefIfvfVf‡f",ðŒÂ•Ê,É□Ý'è,·,éŽèŠÔ,ª□È,⁻,Ü,·□B fJf‰[[•â[]³'2]]®,ðŽg—p,μ,Ä[]Af\[][fX fCf[][][fW,Æ•\ަfffofCfX,Ì[]o—

ĺ,Æ,ÌŠÔ,Å□¶,¶,é‹P"x,Ì,Î,ç,Â,«,ð•â□³,·,é,±,Æ,ª,Å,«,Ü,·□BfCf□□[fW□^—□fAf∨fŠfP□[fVf‡f",ðŽg—p,µ,Ä,¢ ,é□ê□‡□A,±,Ì‹@"\,É,æ,Á,ÄfCf□□[fW (ŽÊ□^,È,Ç) ,ðf,fjjf^,É•\ަ,·,é,Æ,«,ÌfJf‰□[,ð,³,ç,É□³Šm,É□ÄŒ»,·,é,± ,Æ,ª,Å,«,Ü,·□B

,Ü,½□A'½,,Ì 3D fAfNfZf‰fŒ□[fefbfh fQ□[f€,Å□A•\ަ,ª^Ã,·,¬,ÄfvfŒfC,Å,«,È,¢,± ,Æ,ª, ,è,Ü,·□B,·,×,Ä,Ìf`fff"flf<,Å<Ï"™,É-¾,é,³,âfKf"f}'l,ð□ã,°,ê,Î□A•\ަ,ª-¾,é,,È,èfvfŒfC,µ,â,·,,È,è,Ü,·□B ,Â,Ü,Ý,ðŽg—p,μ,Ä□A'2□®,·,éfJf‰□[ f`fff"flf<,ð'l'ð,μ,Ü,·□B□Ô□A—Î□A□Â,Ìf`fff"flf<,ðŒÂ•Ê,É'2□®,μ,½,è□A3 □F,ð"<sup>~</sup>Žž,É'2□®,Å,«,Ü,·□B
fffWf^f< fofCfuf‰f"fX,ĺ□AfJf‰□[,Ì•ª‰ð,ÆfJf‰□["Z"x,ÌfRf"fgf□□[f<,ð<‰»,μ□A, ,ç,ä,éfAfvfŠfP□[fVf‡f",Å-¾,é,'N-¾,ÈfCf□□[fW,ð•\Œ»,μ,Ü,·□B fJf‰□[<È□ü,ðfOf‰ftfBfbfN•\ަ,μ,½,à,Ì□BfRf"fgf‰fXfg□A-¾,é,³□AfKf"f},ð'²□®,·,é,Æ□A,± ,Ì<È□ü,ªfŠfAf<f^fCf€,ŕω»,μ,Ü,·□B ,±,ÌflfvfVf‡f",ð'l'ð,∙,é,Æ□AWindows ,ª□Ä<N"®,μ,½,Æ,«,É,±,±,Å□Ý'è,μ,½fJf ‰□['²□®,ªŽ©"®"I,É∙œŒ³,³,ê,Ü,·□B

 $\begin{array}{ll} \textbf{f} \square \textbf{f}, \textbf{$ 

•Û'¶,μ,½fJf‰[[ fJfXf^f€[]Ý'èfŠfXfg[B,±,ÌfŠfXfg,©,ç[]€−Ú,ð'I'ð,·,é,Æ[]A[]Ý'è,ª•\ަ,³,ê,Ü,·[]B

Œ»□Ý,ÌfJf‰□[□Ý'è,ðfJfXf^f€□Ý'è,Æ,µ,ĕۑ¶,µ,Ü,·□B•Û'¶,µ,½□Ý'è,Í□ã‹L,ÌfJfXf^f€□Ý'èfŠfXfg,É'Ç ‰Á,³,ê,Ü,·□B fŠfXfg,ÅŒ»□Ý'I'ð,³,ê,Ä,¢,éfJf‰□[ fJfXf^f€□Ý'è,ð□í□œ,μ,Ü,·□B

 $,\cdot,\times,\ddot{A},\dot{I}Jf\%\Box\lbrack'I,\delta fn\Box\lbrack fhfEfFfA\Box o\%\times \check{Z}\check{z},\dot{I}\Box\dot{Y}'\dot{e},\acute{E}-B,\mu,\ddot{U},\cdot\Box B$ 

f,fjf^ f^fCf~f"fO f,□[fh,ð'l'ð,μ,Ü,·□B

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^**ê"Êf^fCf~f"fO•ûŽ**®,Ü,½,Í **GTF**,Í□A□V,µ,¢fn□[fhfEfFfA,Ì'å•"•ª,ÅŽg—p,³,ê,Ä,¢,é‹KŠi,Å,·□B

**"Æ—§f,fjf^ f^fCf~f"fO**,Ü,½,Í **DMT**,Í□A^ê•",Ìfn□[[fhfEfFfA,ÅŽg—p,³,ê,Ä,¢,éŒÃ,¢<KŠi,Å,·□B,²Žg p,Ìfn□[[fhfEfFfA,Å DMT ,ªŽw'è,³,ê,Ä,¢,é□ê□‡,Í□A,±,ÌflfvfVf‡f",ð—LŒø,É,µ,Ä,,³¼,³,¢□B Windows ,Ìf^fXfNfo[[,É NVIDIA QuickTweak fAfCfRf",ð'ljÁ,µ,Ü,·□B

,±,ÌfAfCfRf",ðŽg—p,·,é,Æ□AfJfXf^f€□Ý'è,³,ê,½ Direct3D□AOpenGL□AfJf‰□[□Ý'è,ð•Ö—~,Èf|fbfvfAfbfv f□fjf...□[,©,ç'l'ð,μ,Ä,·,Î,â,"K—p,³,¹,é,±,Æ,ª,Å,«,Ü,·□B,Ü,½,±,Ìf□fjf...□[,É,Í□A□‰Šú□Ý'è,É–ß,·,½,ß,Ì□€–Ú,â [‰æ–Ê,Ìfvf□fpfefB] f\_fCfAf□f0,ÉfAfNfZfX,·,é,½,ß,Ì□€–Ú,àŠÜ,Ü,ê,Ä,¢,Ü,·□B NVIDIA Desktop Manager ,ª—LŒø,É,È,è,Ü,·□B

NVIDIA Desktop Manager , $\delta Z_g$ —p,·, $\epsilon$ , $\mathcal{E}$ \_ATwinView f}f<f f,fjf^\_U'è,ÌZg—pZž, $\ell$ \_AfEfBf"fhfEŠÇ— \_[fzfbfgfL\_[, $\hat{a}f_fCfAf$ \_fO,ÌfŠfZf"f^fŠf"fO\_AfY\_[[f€,È,Ç,ÌŠg'£<@'\, $\delta Z_g$ —p, $\hat{A}$ ,«,Ü,·\_B,Ü,½\_ADesktop Manager , $\delta Z_g$ —p,·, $\epsilon$ , $\mathcal{E}_A$ •;U',ÌfffXfNfgfbfv,<sup>a</sup>fTf|\_[fg,<sup>3</sup>, $\hat{e}$ , $\hat{e}$ ,½,ß\_AfAfvfŠfP\_[fVf‡f" f]\_[fNfXfy][fX,Ì]®— \_, $\ell$ - $\delta$ —§,¿,Ü,·\_B [NVIDIA Desktop Manager □Ý'è] f\_fCfAf□fO,ªŠJ,«,Ü,·□B

[Desktop Manager []Ý'è] f\_fCfAf[]fO,Å,Í[]Af\_fCfAf[]fO,ÌfŠfZf"f^fŠf"fO fIfvfVf‡f",âfzfbfgfL[][,Ì'I'ð[]AfAfvfŠfP[][fVf‡f"ŠÇ—[][]Ý'è,È,Ç[]A,·,×,Ä,Ì Desktop Manager ,Ì<@''\ ,Æ[]Ý'è,ð[]§Œä,Å,«,Ü,·[]B [□Ú□×fvf□fpfefB] f\_fCfAf□fO,Å [,ĺ,¢] ,Ü,½,ĺ ["K—p] ,ð'l'ð,μ,Ä•Ï□X,ð"K—p,·,é,½,ß,É□A,± ,Ìf\_fCfAf□fO,ð•Â,¶,Ä•Ï□X,ð•Û'¶,μ,Ü,·□B  $f^{fXfNfo} [fAfCfRf", \delta fNf Sf bf N, \mu, \frac{1}{2}, \mathcal{A}; \langle, E | A, C, \langle, c, \rangle f \} fEf X f \{f^f", A f | f j f ... [[, \delta \bullet \backslash Z |, ^3, ^1, e, @ 'l' \delta, A, «, Ü, \cdot ] B ]$ 

Šm"Ff□fbfZ□[fW,ð•\ަ/″ñ•\ަ,ð'l'ð,μ,Ü,·□B

f^fXfNfo[[ f[]fjf...[[,©,ç 3D []Ý'è,ðf][][fh,μ,½,Ӕ,«,ÉŠm"Ff[]fbfZ[][fW,ð•\ަ,³,¹,È,¢,æ,¤,É,·,é,É,ĺ[A,± ,ÌflfvfVf‡f",ðf`fFfbfN,μ,Ä,,¾,³,¢[]B  $f^fXfNfo[[ f]f...[[,ð 3D • \ަ,<sup>3</sup>,<sup>1</sup>,<sup>1</sup>/<sub>2</sub>,¢]ê[]‡,Í[]A,±,ÌflfvfVf‡f",ð'l'ð,µ,Ü,·]B$ 

fTf|[[[fg,³,ê,Ä,¢,é[]Å'å‰ð'œ"x,æ,è,à'á,¢‰ð'œ"x,ÅŽÀ[]s,µ,Ä,¢,é[]ê[]‡[]Aftf‰fbfg fpflf< fffBfXfvfŒfC[]ã,ÉfCf[][[fW,ð•\ަ,³,¹,é^Ê'u,ðŒ^'è,µ,Ü,·[]B –î^óf{f^f",ðŽg,Á,Ä□Af,fjf^□ã,ÌfffXfNfgfbfv,Ì^Ê'u,ð'²□®,μ,Ü,·□B

 $\textcircled{C} = [\hat{Y}, \hat{I}, \hat{W}, \hat{U}, \hat{$ 

,±,ê,ç,ÌflfvfVf‡f",©,ç□o—ĺ•\ަfffofCfX (f,fjf^□AfffWf^f< ftf‰fbfg fpflf<□AfefŒfr,È,Ç□AfffBfXfvfŒfC fAf\_fvf^,ªfTf|□[fg,μ,Ä,¢,éfffofCfX,É,æ,è^Ù,È,è,Ü,·),ð'l'ð,Å,«,Ü,·□B fAfNfefBfu,È•\ަfffofCfX,Ì□Ý'è,ðfJfXf^f}fCfY,Å,«,éfEfBf"fhfE,ð•\ަ,µ,Ü,·□B

TV □o—ĺ,ÅŒ»□ÝŽg—p,³,ê,Ä,¢,éŒ`Ž®,Æ'n^æ,Ì□Ý'è,ðަ,μ,Ü,·□B

"Á'è,Ì TV □o—ĺŒ`Ž®,ðŽw'è,∙,éfEfBf"fhfE,ð•\ަ,μ,Ü,·□B

 $,\pm, \mathbf{\hat{f}}\mathbf{\hat{f}}\mathbf{\hat{f}}\mathbf{f}\mathbf{g}, \mathbb{O}, \mathbf{c}, \ddot{=} \mathbb{Z}, \ddot{\cup}, \mathbf{c}, \mathbf{\hat{l}} \square '-\frac{1}{4}, \mathbf{\delta}'\mathbf{l}' \mathbf{\delta}, \mu, \mathbf{\ddot{A}} \top \mathbf{V} \square \mathbf{o} - \mathbf{\hat{l}}\mathbf{G}` \mathbf{\hat{Z}}^{\mathbb{R}}, \mathbf{\delta}\mathbf{G}^{^{\prime}}\mathbf{e}, \mu, \ddot{\cup}, \mathbf{\Box} \mathbb{B}$ 

**f**□**f,:** ,¨□Z,Ü,¢,Ì□'-¼,²fŠfXfg,É•\ަ,³,ê,Ä,¢,È,¢□ê□‡,Í□A,¨□Z,Ü,¢,Ì′nˆæ,É□Å,à<ß,¢□'-¼,ð'l'ð,μ,Ä,,¾,³,¢□B

ʻl'ð,μ,½Œ`Ž®,ð"dŒ¹"Š"üŽž,Ì□‰Šú□Ý'è,É□Ý'è,μ,Ü,·□B

fefŒfr,ðfffBfXfvfŒfC fAf\_fvf^,É□Úʻ±,µ,ÄfRf"fsf...□[f^,ð<N"®,µ,½□ê□‡□A,±,ÌflfvfVf‡f",ðʻl'ð,·,é,± ,Æ,Å□A<N"®Žè□‡,Å•\ަ,³,ê,é,·,×,Ä,̉æ-Êf□fbfZ□[fW,ª,²Žg—p,ÌfefŒfr,ÅfTf| □[fg,³,ê,é□³,µ,¢Œ`Ž®,ÅŠmŽÀ,É□o—ĺ,³,ê,Ü,·□B TV ,É'— $[M, \cdot, \acute{e}]_0$ — $\acute{l}[M]_{\dagger}, if^fCfv, \delta$ Žw'è,Å,«,Ü,·[B]

"K□Ø,ÈfRflfNf^ fP□[fuf<,ðŽg—p,μ,½□ê□‡□A^ê"Ê"I,É S-frfffl□o—ĺ,Ì•û,ªfRf"f|fWfbfg frfffl□o—ĺ,æ,è,à□,,¢ ‰æŽ¿,Å□o—ĺ,·,é,±,Æ,ª,Å,«,Ü,·□B,Ç,Ìf^fCfv,ð'l'ð,·,ê,Î,¢,¢ ,© •ª,©,ç,È,¢□ê□‡,Í□A□**uީ"®'I'ð**□**v**□Ý'è,ð'l'ð,μ,Ä,,¾,³,¢□B  $-\hat{i}^{\circ} \acute{o}f{f^{\circ}}, \\ \\ \check{d}_{g}, \\ \dot{A}, \\ \\ \dot{A}, \\ \\ \dot{A}, \\ \\ \dot{A}, \\ \dot{A}, \\ \dot{A}, \\ \dot{A}, \\ \\ \dot{A}, \\ \dot{$ 

**f**□**f**,: '<sup>2</sup>□®,ðŒë,Á,Ä TV ‰æ'œ,ª—□,ê,½,艽,à•\ަ,³,ê,È,,È,Á,½□ê□‡,Í□A,»,Ì,Ü,Ü 10 •bŠÔ,¨'Ò,¿,-,¾,³,¢□B‰æ'œ,ªŽ©"®"I,É□‰Šú□Ý'è,Ì^Ê'u,É-ß,è,Ü,·□B,»,ÌŒã,à,¤^ê"x'²□®,μ,Ä,-,¾,³,¢□BfffXfNfgfbfv,Ì^Ê'u,ªŒ^,Ü,Á,½,ç□A10 •bŒo‰ß,·,é'O,É [OK],Ü,½,Í ["K—p] f{f^f",ð ‰Ÿ,μ,Ä□Ý'è,ð•Û'¶,μ,Ä,,¾,³,¢□B  $( E \otimes [ \acute{Y}, \grave{I} ) \% \delta' ( e^{*} x, \acute{E}, \ddot{-}, \acute{e} ] \% \check{S} \acute{u} [ \acute{Y}' \grave{e}, \grave{I} \hat{-} \acute{E}' u, \acute{E} fff Xf Nfgf bf v, \delta - B, \mu, Ü, \cdot ] B$ 

,±,ê,ç,ÌfRf"fgf□□[f<,ðŽg—p,μ,Ä□ATV ‰æ'œ,Ì-¾,é,³,Æ□Ê"x,ð'²□®,μ,Ü,·□B

,±,ê,ç,ÌfRf"fgf□□[f<,ðŽg—p,μ,Ä□ATV ‰æ'œ,Ì-¾,é,³,ÆfRf"fgf‰fXfg,ð'²□®,μ,Ü,·□B

,±,ÌfRf"fgf]][[f<,ðŽg—p,µ,Ä]ATV []M[]†,É"K—p,·,éftfŠfbfJ ftfBf<f^,Ì—Ê,ð'<sup>2</sup>[]®,µ,Ü,·[]B DVD ‰f‰æ,ðfn][[fhfEfFfA fffR[][f\_,Å[]Ä[]¶,·,é,Æ,«,Í[]AftfŠfbfJ ftfBf<f^,ðŠ®'S,É[]Ø,é,±,Æ,ð,¨Š©,ß,µ,Ü,·[]B  $\mathsf{TV}, \acute{\mathsf{E}}\_o\_\acute{\mathsf{I}}, \cdot, \acute{\mathsf{E}}\_\mathring{U}, \grave{\mathsf{I}} & \overset{\circ}{\overset{\circ}{\overset{\circ}{\overset{\circ}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}{\overset{\circ}}{\overset{\circ}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}{\overset{\circ}}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}}{\overset{\circ}}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}}{\overset{\circ}}{\overset{\circ}}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}{\overset{\circ}}}{\overset{\circ}$ 

 $\label{eq:NVIDIA_formula} NVIDIA fOf \%ft fbf hfX fvf ff hfX fvf hfX fvf ff hfX fvf ff hfX fvf hfX fvf ff hfX fvf hfX fvf ff hfX fvf h$ 

NVIDIA fOf‰ftfBfbfNfX fvf□fZfbfT,ÌfRfA fNf□fbfN'¬"x,ð□Ý'è,µ,Ü,·□B

fRfA fNf□fbfN'¬"x,ðf□fKfwf<fc,Å•\ަ,µ,Ü,·□B
$fffBfXfvf{@}fC~fAf\_fvf^, \hat{l}f{}_f, f\check{S}~fCf''f^ftfF{}_[fX, \hat{l}fNf{}_fbfN'\neg''x, \delta{}_{}]\acute{Y}'e, \mu, \ddot{U}, \cdot{}_{}B$ 

 $f \Box f, f \check{S} f C f ``f \land f t f F \Box [f X, \dot{f} N f \Box f b f N `\neg ``x, \delta f \Box f K f w f < f c, \mathring{A} \bullet \backslash \check{Z} |, \mu, Ü, \cdot \Box B$ 

□V,μ,¢fNf□fbfNŽü"g□",Ì□Ý'è,ð"K—p,∙,é'O,É^À'è□«,ðfefXfg,μ,Ü,·□B

 $\label{eq:final_field} \textbf{f}_{\texttt{I}} = f_{\texttt{I}}[f]_{\texttt{I}}[,\dot{h}]_{\texttt{K}} \check{S} \acute{u} \check{Y} \acute{e}, \\ \mathcal{K} = \dot{V}, \\ \mu, \\ \psi = \dot{V}, \\ \psi = \dot{V},$ 

,±,ÌflfvfVf‡f",ð'l'ð,·,é,Æ□AWindows ,ð<N"®,·,é,½,Ñ,ÉfNf□fbfNŽü"g□",Ì•Ï□X,ªŽ©"®"I,É"K—p,³,ê,é,æ,¤ ,É,È,è,Ü,·⊡B

$$\begin{split} & \texttt{f}_{\texttt{f}}, \texttt{f}, \texttt{f},$$

fRf"fgf□□[f<,ð□Ä,Ñ—LŒø,É,·,é'O,É□A,·,×,Ä,ÌfNf□fbfN'²□®<@"\,ðfŠfZfbfg,μ□A<□§"I,ÉfOf‰ftfBfbfNfX fn□[fhfEfFfA,Ì□ÄŒŸ□o,ðŽÀ□s,μ,Ü,·□B

fffBfXfvfŒfC fAf\_fvf^,Ì BIOS ,ðfAfbfvff□[fg"Å BIOS fCf□□[fW,É□Ø,è'Ö,¦,é,½,Ñ,É□AfŠfZfbfg,ðŽÀ□s,·,é,± ,Æ,ð,¨Š©,ß,µ,Ü,·□B ^ȉº,Ì 4 ,Â,Ì TwinView ƒ,□[fh,©,ç'l'ð,Å,«,Ü,·□B

•**W**□**€** -} •W□€"I,È'P^êfffBfXfvfŒfC f,□[fh,ð'I'ð,µ,Ü,·□BNVIDIA fOf‰ftfBfbfNfX□@fAf\_fvf^,É□Ú'±,µ,Ä,¢,¢•\ަfffofCfX,³ 1 'ä,Ì,Ý,Ì□ê□‡,É,Í□A,±,Ìf,□[fh,ðŽg—p,µ,Ä,,¾,³,¢□B

 $\label{eq:started_field} \textbf{fNf} = [f'' - ], \pm, \hat{l}, \\ [fh, \hat{A}, \hat{l}] A' \And 1 \bullet \\ \hat{Z}_{l} fff of Cf X, \\ \hat{l}]^{3} \\ \tilde{S}m, \\ \hat{E}f Rf \\ s = [, \delta' \And 2 fff of Cf X, \\ \hat{E} ] o \\ - \hat{l}, \\ \mu, \\ \ddot{U}, \\ \vdots ] B \\ \hat{S}m, \\ \hat{E}f Rf \\ s = [, \delta' \And 2 fff of Cf X, \\ \hat{E} ] o \\ - \hat{l}, \\ \mu, \\ \ddot{U}, \\ \vdots ] B \\ \hat{S}m, \\ \hat{E}f Rf \\ s = [, \delta' \And 2 fff of Cf X, \\ \hat{E} ] o \\ - \hat{l}, \\ \mu, \\ \ddot{U}, \\ \vdots ] B \\ \hat{S}m, \\ \hat{E}f Rf \\ s = [, \delta' \And 2 fff of Cf X, \\ \hat{E} ] o \\ - \hat{l}, \\ \mu, \\ \ddot{U}, \\ \vdots ] B \\ \hat{S}m, \\ \hat{E}f Rf \\ s = [, \delta' \And 2 fff \\ of \\ Cf X, \\ \dot{E} ] o \\ - \hat{l}, \\ \mu, \\ \ddot{U}, \\ \vdots ] B \\ \hat{S}m, \\$ 

 $[ ,''_{4} fX fpf" - \}, \pm, ]f, [] [fh, Å, I] A Windows fff X f N fg f b f v, \delta [], ''_{4} \bullet \hat{u} \oplus \ddot{u}, E \check{S}g' å, \mu ] A 2, \hat{A}, ] \bullet | \check{Z} | ff f o f C f X, Å \bullet | \check{Z} |, Å, «, Ü, \cdot [] B 2, \hat{A}, ] ff f B f X f v f \oplus f C, \delta' g, \dot{Y} [] \pm, i, 1, e, \pm, \mathcal{R}, Å ] A' å, «, È 1, \hat{A}, ] ff f B f X f v f \oplus f C, \delta' g, \dot{Y} [] \pm, i, 1, e, \pm, \mathcal{R}, Å ] A' å, «, È 1, A, ] ff f B f X f v f \oplus f C, \delta' g, \dot{Y} [] \pm, i, 1, e, \pm, \mathcal{R}, A ] A' å, «, È 1, A, ] ff f B f X f v f \oplus f C, \delta' g, \dot{Y} [] \pm, i, 1, e, \pm, \mathcal{R}, A ] A' a, w, \dot{E} ] f A = 0$ 

**[TwinView Standard]** - •W□€"I,È'P^êfffBfXfvfŒfC f,□[fh,ð'I'ð,µ,Ü,·□BNVIDIA fOf‰ftfBfbfNfX fAf\_fvf^,É□Ú'±,µ,Ä,¢,é•\ަfffofCfX,ª 1 'ä,Ì,Ý,Ì□ê□‡,É,Í□A,±,Ìf,□[fh,ðŽg—p,µ,Ü,·□B **[TwinView Horizontal Span]** - ,±,Ìf,□[fh,Å,Í□AWindows ,ÌfffXfNfgfbfv,ð 2 'ä,Ì•\ަfffofCfX,'n¡'·,É•\ ަ,Å,«,Ü,·□B,±,Ìf,□[fh,Å,Í□A2 'ä,ÌfffofCfX,Å'å,«,ÈŠg'£•\ަ‰æ-Ê,ðŒ`□¬,·,é,± ,Æ,É,È,è□A'P^êfffBfXfvfŒfC,Å,Í•\ަ,µ,«,ê,È,¢□€-Ú,ð•\ަ,·,é□ê□‡,ɕ֗~,Å,·□B **[TwinView Vertical Span]** - ,±,Ìf,□[fh,Å,Í□AWindows ,ÌfffXfNfgfbfv,ð 2 'ä,Ì•\ަfffofCfX,Å□c'·,É•\ ަ,·,é,±,Æ,ª,Å,«,Ü,·□B,±,Ìf,□[fh,Å,Í□A2 'ä,ÌfffofCfX,Å'å,«,ÈŠg'£•\ަ‰æ-Ê,ðŒ`□¬,·,é,± ,Æ,É,È,è□A'P^êfffBfXfvfŒfC,Å,Í•\ަ,µ,«,ê,È,¢□€-Ú,ð•\ަ,·,é□ê□‡,ɕ֗~,Å,·□B TwinView •\ަ□Ý'è,ªfOf‰ftfBfJf<•\ަ,³,ê,Ü,·□B

f,fjf^,ÌfOf‰ftfBfbfN,ðfNfŠfbfN,∙,é,Æ□AŒ»□Ý,Ì•\ަ,Æ,µ,Äʻl'ð,Å,«,Ü,·□Bf,fjf^,ÌfOf‰ftfBfbfN,ð ‰EfNfŠfbfN,∙,é,Æ□A□Úʻ±,µ,Ä,¢,é•\ަffofCfX,ð′²□®,∙,é,½,ß,Ì,³,Ü,´,Ü,È□€−Ú,ª•\ަ,³,ê,Ü,·□B 
$$\begin{split} fNf & [][f^{H}, \delta Z_{g} - p, \cdot, \acute{e}, \mathcal{E} ] A^{\prime} \mathfrak{E} \ 1 \ fff of CfX, \mathring{A}, \acute{l}^{\prime} \mathfrak{E} \ 2 \ \bullet \ \check{Z} \ fff of CfX, \mathfrak{E}, \grave{e} ], \ efff XfNf gf bf v & \delta^{\prime} \mathfrak{E}^{\ast} x, \delta Z_{g} - p, \mathring{A}, \mathscr{E}, \ddot{U}, \cdot ] B^{\prime} \mathfrak{E} \ 2 \ fff of CfX, \grave{i}^{\ast} - ] & \delta^{\prime} \mathfrak{E}^{\ast} x, \overset{a}{\mathfrak{E}} \mathfrak{E} \ 1 \ fff of CfX, \mathfrak{E}, \grave{e}, \grave{a}, \diamond ] \ densite a \ 2 \ fff of CfX, \grave{h} fff XfNf gf bf v & \delta^{\prime} \mathfrak{E}^{\ast} x, \delta Z_{g} - [\mathring{A}, \mathscr{E}, ] \ densite a \ 2 \ fff of CfX, \grave{h} fff XfNf gf bf v & \delta^{\prime} \mathfrak{E}^{\ast} x, \delta Z_{g} + [\mathring{A}, \mathscr{E}, ] \ densite a \ 2 \ fff of CfX, \grave{h} fff XfNf gf bf v & \delta^{\prime} \mathfrak{E}^{\ast} x, \delta Z_{g} + [\mathring{A}, \mathscr{E}, ] \ densite a \ 2 \ fff of CfX, \grave{h} fff XfNf gf bf v, a \ 2 \ e^{\ast} x, \delta Z_{g} + [\mathring{A}, \mathscr{E}, ] \ densite a \ 2 \ fff of CfX, A \ densite \ densite a \ densite a \ densite$$

 $[fNf] [] [f" fffofCfX, Å ‰ ¼ 'zfffXfNfgfbfv, ð --LŒø, É, ·, é] flfvfVf‡f", ð'l'ð, µ, Ä, ¢, é[ê]‡, Í[A'æ 2 fffofCfX, ÌŽ©" @fpf"<@"\,ðflft, É, µ, Ä,, ¾, ³, ¢[B, ±, ¤, ·, é, ±, Æ, Å]A ‰ ¼ 'zfffXfNfgfbfv, ð"C^Ó, Ì^Ê'u, É[]³Šm, É[]uŒÅ'è[]v, Å, «, Ü, ·[B, ±, ]<@"\, ,Í[AfvfŒf[f"fe][fVf‡f", ð]s, ¤]ê]‡, âfAfvfŠfP[[fVf‡f", Å] ×, ©, ¢]]< Æ, ð]s, ¤]ê]‡, ɕ֗~, Å, ·[B$ 

,±,Ì‹@"\,ð—LŒø,É,·,é,Æ□AŒ»□Ý'I'ð,³,ê,Ä,¢,éfffBfXfvfŒfC□ã,ÅŒ»□Ý,Ìfpf"<sup>^</sup>Ê'u,ªf□fbfN,³,ê,Ü,·□B,±,¤ ,·,é,±,Æ,Å□A‰¼′zfffXfNfgfbfv,ð"C<sup>^</sup>Ó,Ì<sup>^</sup>Ê'u,É□³Šm,É□uŒÅ'è□v,Å,«,Ü,·□B,±,Ì‹@"\ ,Í□AfvfŒf[f"fe□[fVf‡f",ð□s,¤□ê□‡,âfAfvfŠfP□[fVf‡f",Å□×,©,¢□ì‹Æ,ð□s,¤□ê□‡,ɕ֗<sup>~</sup>,Å,·□B TwinView fXfpf" f,□[fh,̉¼'zfffXfNfgfbfv<@''\,ª—LŒø,É,È,è,Ü,·□B

,±,Ì<@"\,ð—LŒø,É,·,é,Æ<code>[A2 'ä,ÌfffBfXfvfŒfC,ð]‡,í,¹,½•</code>"—[]"I,È•\ަ—Ì^æ]<sub>i</sub>-@,æ,è,à'å,«,ÈfffXfNfgfbfv,ð[]Ý'è,Å,«,Ü,·]B

TwinView 'æ 2 fffofCfX $\Box$ Ý'è,ÌfOf‰ftfBfbfN•\ަ

 $fNf_{[][f^{"},f_{[}[fh,\delta Zg_p,\mu,A,c,e,A,e,A,e,M]]}(f^{"},e^{'},f^{'},e$ 

fY□[f€ fRf"fgf□□[f<,ð—LŒø,É,·,é,Æ□Afrfffl□o—ĺ‰æ-Ê,Ì"Á'è,Ì—Ì^æ,ðŠg'å,Å,«,Ü,·□B

 $\begin{array}{l} frfffl & & & & & \\ & & & & \\ & & & \\ & & & & & \\ & & & & \\ & & &$ 

ʻl'ð,μ,½frfffl□Ä□¶‰æ–Ê,Ì^ê•"•ª,ðŠgʻå,Ü,½,Í□k□¬,Å,«,Ü,·□B

 $frfffI, \delta ftf < fXfNf \check{S}[[f"f, ][fh, \& ]\ddot{A} ] \ddot{A} ] , \cdot, \acute{e} \cdot \check{Z} \\ iff of CfX, \delta' I' \delta, \mu, \ddot{U}, \cdot ]B$ 

 $ftf \langle fXfNf\check{S}[[f'']\ddot{A}]] \check{T}\check{Z}, \check{I}] c \\ & \sim_i''\ddot{a} ([] \dots \bullet \frac{1}{2}fTfCfY' \hat{I}], \frac{1}{4}fTfCfY), \\ \check{\delta}'I'\check{\delta}, \check{A}, \\ & \ll, \\ \ddot{U}, \frac{1}{2}B$ 

,±,ÌflfvfVf‡f",ð—LŒø,É,∙,é,Æ□Aftf‹fXfNfŠ□[f",Å,Ìfrfffl□Ä□¶,É□Å"K,ȉð'œ"x,ðfrfffl fhf ‰fCfo,ªŽ©"®"l,É'l'ð,µ,Ü,·□B ,±,ÌflfvfVf‡f",ð—LŒø,É,·,é,Æ□A[fl□[fo□[fŒfC fRf"fgf□□[f<] fy□[fW,ÌfY□[f€ fRf"fgf□□[f<,ÉfŠf"fN,·,é,Ì,Å□Aftf<fXfNfŠ□[f" fffofCfX,ÌfY□[f€"ä,à"<sup>-</sup>Žž,ÉfRf"fgf□□[f<,Å,«,Ü,·□B ,±,Ìf{f^f",ðfNfŠfbfN,∙,é,Æ□ATwinView ,ÌfNf□□[f" f,□[fh,Å'l'ð,Å,«,é□,"x,Èfrfffl‹@"\,ÉfAfNfZfX,Å,«,Ü,·□B,± ,ê,ç,Ì‹@"\,ÉfAfNfZfX,∙,é,É,Í□A,»,ÌŽž"\_,ÅfNf□□[f" f,□[fh,ª—LŒø,É,È,Á,Ä,¢,é•K—v,ª, ,è,Ü,·□B ,±,ÌflfvfVf‡f",ð—LŒø,É,·,é,Æ[]Afl[][fo[][fŒfC f\ftfgfEfFfA,Å‹[]§"I,ÉfofXf}fXf^fŠf"fO,ªŽg—p,³,ê,Ü,·[]B,± ,ÌflfvfVf‡f",Í[]Afrfffl fCf[][][fW,ª—[],ê,é[]A, ,é,¢,Í,Ü,Á,½,•\ަ,³,ê,È,¢,Æ,¢,Á,½frfffl[]Ä[]¶,Ì-â'è,ª"-[]¶,μ,È,¢ŒÀ,è[]AŽg—p,μ,È,¢,æ,¤,É,μ,Ä,,¾,³,¢[]B ʻl'ð,³,ê,½frfffl fAf\_fvf^,ÅŽg—p,μ,Ä,¢,éf,fjf^,ÌŒ`Ž®,ð•\ަ,μ,Ü,·□B

 $fNf\check{S}fbfN,\cdot,\acute{e},\mathcal{A}_{\Box}A,\pm,\grave{l}f,fjf^{,}\grave{l}fffofCfX,^{``},\mathfrak{a},\tilde{N}fhf\%fCfo~fvf_{\Box}fpfefB,^{a}\bullet\check{Z}^{,},\grave{e},\ddot{U},\cdot_{\Box}B$ 

,±,Ìf,fjf^,ÅŽg—p,Å,«,éfŠftfŒfbfVf... fŒ□[fg,ð^ê——∙\ަ,μ,Ü,·□BfŠftfŒfbfVf...ŽüŠú,ð'Ζ,,·,é,Ɖæ– Ê,ÌftfŠfbfJ,ª'áŒ,,³,ê,Ü,·□B ,²Žg—p,Ìf,fjf^,Å'Ήž,μ,Ä,¢,È,¢f,□[fh,ð [fŠftfŒfbfVf...ŽüŠú] ,ÌfŠfXfg,ÉŠÜ,ß,é,©,Ç,¤,©,ðŽw'è,μ,Ü,·□B'Î ‰ž,μ,Ä,¢,È,¢f,□[fh,ð'I'ð,·,é,Æ□A•\ަ,É□d'å,È-â'è,ª″□¶,μ,½,è□Afn□[fhfEfFfA,ª'¹□□,·,é□ê□‡,ª, ,è,Ü,·□B ,±,ÌflfvfVf‡f",ð'l'ð,·,é,Æ[]AfAfvfŠfP[]fVf‡f",Å'l'ð,³,ê,Ä,¢,éfsfNfZf‹,É,©,©,í,ç,\_]AOpenGL fhf‰fCfo,Å,Í‹-\_]§"I,É 16 frfbfg[]['wfofbftf@,ªŽg—p,³,ê,Ü,·]B ,±,ê,É,æ,è[]A[]['wfofbftf@,Ì[],"x,Í'½]—Ž,¿,Ü,·,ª]]A[]['wfofbftf@ fNfŠfA,Æ"®[]ì,ÌfpftfH[][f}f"fX,ÍŒü[]ã,µ,Ü,·]B ,±,Ì<@"\,ð—LŒø,É,∙,é,Æ□AOpenGL ,Å Windows 2000 ,Ì [Advanced Multi Monitor] <@"\,ªŽg—p,³,ê,Ü,·□B

,±,ÌflfvfVfŧf",ðŽg,Á,Ä□AfffXfNfgfbfv,Ì□¶□ã<÷,ð•\ަ,·,éfffBfXfvfŒfC,ðʻl'ð,µ,Ü,·□B,±,ÌflfvfVfŧf",Í□Af,fjf^ fCf□□[fW,Ì^Ê'u,ð"ü,ê'Ö,¦,é□Û,ÉŒø‰Ê,ð"Šö,µ,Ü,·□B Œ»□Ý,Ì TwinView fffBfXfvfŒfC,ª,·,×,Ä•\ަ,³,ê,Ü,·□B2 ,Â^È□ã,ÌfffofCfX,ª□Ú'±,³,ê,Ä,¨,è□A[•W□€] ^ÈŠO,Ìf,□[fh,ðŽg—p,µ,Ä,¢,é□ê□‡,É□A,±,ê,ç,ÌfffBfXfvfŒfC,©,猻□ÝŽg—p,·,éfffBfXfvfŒfC,ðʻI'ð,µ,Ü,·□B

,Ü,½□A,·,®□ã,ÌfRf"fgf□□[f<,É•\ަ,³,ê,Ä,¢,éf,fjf^ fOf ‰ftfBfbfN,ðfNfŠfbfN,·,é,Æ□AŒ»□Ý,ÌfffBfXfvfŒfC,Æ,μ,Ä'l'ð,Å,«,Ü,·□B ,±,Ìf{f^f",ðfNfŠfbfN,∙,é,Æ□AŒ»□Ý,ÌfffBfXfvfŒfC,Æ,µ,ÄŽg—p,µ,Ä,¢,é□o— ÍfffofCfX,ðfZfbfgfAfbfv,µ,½,è□A,»,ÌfffofCfX,ÉŠÖ~A,µ,½□Ý'è,ð∙Ï□X,µ,½,è,∙,é,±,Æ,ª,Å,«,Ü,·□B fpf" fRf"fgf□□[f‹,É,æ,è□AŽÀ□Û,ÌfffXfNfgfbfv—Ì^æ,É'Î,·,é•\ަ‰æ-Ê— Ì^æ,Ì'å,«,³,ðfZfbfgfAfbfv,Å,«,Ü,·□B,±,ê,É,æ,è□A,²Žg—p,Ìf,fjf^□Aftf‰fbfg fpflf‹□AfefŒfr,Å'Ê□í•\ ަ,Å,«,éfffXfNfgfbfv,æ,è,à'å,«,ÈfffXfNfgfbfv,ðŽg—p,Å,«,Ü,·□B  $fNf \check{S} fbfN, \cdot, \acute{e}, \&\BoxA, \pm, \dot{f} fffl fAf_fvf^, \acute{E}[U'\pm, ^3, \hat{e}, \ddot{A}, \dot{e}, \acute{e}, \cdot, \times, \ddot{A}, \dot{l} fffBfXfvf \&fC, ^a \&\ddot{U}, \cdot \BoxB[fRf"fgf]\Box[[f < for first, -1]] for first of the standard state of the state of$
ŒŸ[]o,³,ê,È,¢'æ 2 fffBfXfvfŒfC fRflfNf^,Éf,fjf^,ð[]Ú'±,µ,Ä,¢,é[]ê[]‡,Í[]A,± ,Ìf{fbfNfX,ðf`fFfbfN,µ,Ü,·[]BBNC fRflfNf^,É[]Ú'±,µ,Ä,¢,鋌Œ^,Ìf,fjf^,ðŽg—p,µ,Ä,¢,é[]ê[]‡,ɕ֗~,Å,·[]B  $fNf\check{S}fbfN,\cdot,\acute{e},\&\BoxANVIDIA\ fx[[fX,l]fOf‰ftfBfbfNfX\ fAf_fvf^,\acute{E}\check{S}\"{O}^{\sim}A,\mu, \frac{1}{2}\Box\hat{I}\bullet\tilde{n}, ^{a}\bullet\check{Z}^{l}_{l}, ^{3}, \hat{e}, \ddot{U}, \cdot\Box B$ 

fNfŠfbfN,·,é,Æ[]ANVIDIA fx[[fX,ÌfOf‰ftfBfbfNfX fAf\_fvf^,Ì,»,Ì'¼,Ì<@''\,ÉfAfNfZfX,Å,«,Ü,·[]B

fNfŠfbfN,∙,é,Æ□ANVIDIA Web fTfCfg,Å□Å□V,Ì□î•ñ,â NVIDIA fx□[fX,ÌfOf‰ftfBfbfNfX fAf\_fvf^,Ìfhf ‰fCfo,ÉfAfNfZfX,Å,«,Ü,·□B ,±,±,É,Í□AŒ»□ÝʻI'ð,³,ê,Ä,¢,éfOf‰ftfBfbfNfX fAf\_fvf^,Ìfn□[fhfEfFfA,ÉŠÖ,·,é□Ý'u,Ì□Ú□×,ª•\ަ,³,ê,Ü,·□B

fOf‰ftfBfbfNfX,Ì'S'Ì"I,ÈfpftfH□[f}f"fX,ɉe‹¿,∙,éfVfXfef€,Ì□Ý'è,ð'l'ð,∙,é,Æ□A,»,ê,ÉŠÖ,∙,é□Ú□×,ª∙\ ަ,³,ê,Ü,∙□B ,±,Ì•\,Í□ANVIDIA fx□[fX,ÌfOf‰ftfBfbfNfX fAf\_fvf^,ÅŒ»□ÝŽg—p,³,ê,Ä,¢,éftf@fCf‹,Ì^ê——,Æ'Î ‰ž,∙,éfo□[fWf‡f",ðަ,μ,Ü,·□B [fAfvfŠfP□[fVf‡f"ŠÇ—□] □Ý'èfy□[fW,Å,ĺ□AfAfvfŠfP□[fVf‡f",²,Æ,É□A•;□",ÌfffBfXfvfŒfC,âfffXfNfgfbfvŠÔ,Å,ÌfAfvfŠfP□[fVf‡f" fEfBf"fhfE,Ì•\ަ^Ê'u,ðŠÇ—□,Å,«,Ü,·□B ,±,ê,ĺ Desktop Manager ,ÅŒ»□ÝŠÇ—□,³,ê,Ä,¢ ,éfAfvfŠfP□[fVf‡f",ÌfŠfXfg,Å,·□BfŠfXfg,©,çfAfvfŠfP□[fVf‡f",ð'l'ð,µ□AfAfvfŠfP□[fVf‡f"ŠÇ— □□Ý'è,ð□Ý'è,µ,Ü,·□BfŠfXfg,Ì•Ò□W,Í□A‰E'¤,É, ,é ['ljÁ] f{f^f",Æ [□í□œ] f{f^f",ðŽg,Á,Ä□s,¢,Ü,·□B ,±,Ìf{f^f",ðfNfŠfbfN,·,é,Æ□ADesktop Manager ,ÅŠÇ— □,³,ê,éfAfvfŠfP□[fVf‡f",ÌfŠfXfg,É□V,μ,¢fAfvfŠfP□[fVf‡f" fvf□fOf‰f€,ª'ljÁ,³,ê,Ü,·□B ,±,Ìf{f^f",ðfNfŠfbfN,·,é,Æ[]ADesktop Manager ,ÅŠÇ— [],³,ê,éfAfvfŠfP[[[fVf‡f",ÌfŠfXfg,©,ç[]AŒ»[]Ýʻl'ð,³,ê,Ä,¢,éfAfvfŠfP[[fVf‡f",ª[]í[]œ,³,ê,Ü,·[]B ,±,Ìf{f^f",ð‰Ÿ,µ,Ä□AfAfvfŠfP□[fVf‡f" fŠfXfg,Ì,·,×,Ä,ÌfGf"fgfŠ,ðfNfŠfA,µ,Ü,·□B Œx□□: fGf"fgfŠ,ð,·,×,ÄfNfŠfA,·,é,Æ□AfAfvfŠfP□[fVf‡f",É'Î,·,éfJfXf^f}fCfY"à—e,Í,·,×,ÄfŠfZfbfg,³,ê,Ü,·□B ,±,ÌflfvfVf‡f",ð'l'ð,∙,é,Æ□AfAfvfŠfP□[fVf‡f" fEfBf"fhfE,ª□í,ÉŽw'è,μ,½fffBfXfvfŒfC,Å‹N"®,∙,é,æ,¤ ,É,È,è,Ü,·⊡B [,±,ÌfAfvfŠfP□[fVf‡f",ð□í,ÉŽŸ,̉æ–Ê"Ô□†,̉æ–Ê,Å<N" ®,·,é] flfvfVf‡f",ªʻl'ð,³,ê,Ä,¢ ,é□ê□‡□AŒ»□Ý'l'ð,³,ê,Ä,¢,éfAfvfŠfP□[fVf‡f",ª□í,É<N" ®,·,éfffBfXfvfŒfC (f,fjf个),ð,± ,ÌftfB□[f<fh,ÅŽw'è,μ,Ü,·□B ,±,ÌflfvfVf‡f",ð'l'ð,∙,é,Æ□ADesktop Manager ,É,æ,Á,ÄfAfvfŠfP□[fVf‡f" fEfBf"fhfE,ÌfTfCfY,Æ^Ê'u,ª‹L ‰⁻,³,ê,Ü,·□BŽŸ,ÉfAfvfŠfP□[fVf‡f",ð<N" ®,∙,é,Æ□ADesktop Manager ,É,æ,è‹L‰⁻,³,ê,Ä,¢ ,½fTfCfY,Æ^Ê'u,ÅfAfvfŠfP□[fVf‡f" fEfBf"fhfE,ª•\ަ,³,ê,Ü,·□B ,±,ÌflfvfVf‡f",ðŽg—p,·,é,Æ□AfAfvfŠfP□[fVf‡f" fEfBf"fhfE,ð□Å'å ‰»,·,é□Û,É□A•;□",ÌfffBfXfvfŒfC,É,Ü,½,ª,éfffXfNfgfbfv'S'Ì,Å□Å'剻,·,é,Ì,Å,Í,È,-□A,»,ÌfEfBf"fhfE,ªŒ»□Ý•\ަ,³,ê,Ä,¢,鉿-Ê,Ì,Ý,Å□Å'剻,Å,«,Ü,·□B ,±,±,É•Ê,ÌfAfvfŠfP□[fVf‡f" fffXfNfgfbfv,Ì-¼'O,ð"ü—ĺ,μ,Ü,·□B,Ü,½□Afhf□fbfvf\_fEf" f{f^f",ðŽg,Á,Ä□A•Ê,ÌfAfvfŠfP□[fVf‡f"—p,ÉŠù,É□ì□¬,μ,Ä, ,éfffXfNfgfbfv,©,ç'l'ð,∙,é,±,Æ,à,Å,«,Ü,·□B

,±,ÌftfB□[f‹fh,Í□A[,±,ÌfAfvfŠfP□[fVf‡f",ð•Ê,ÌfffXfNfgfbfv,Å‹N"®,·,é] flfvfVf‡f",ð'l'ð,µ,Ä,¢,é□ê□‡,Ì,ÝŽg p,Å,«,Ü,·□B [fzfbfgfL□[] fy□[fW,Å,ĺ□AfffXfNfgfbfv,Ö,ÌfAfvfŠfP□[fVf‡f" fEfBf"fhfE,Ì"z'u,ðŠÇ— □,·,é,½,ß,Ì□ufzfbfgfL□[□v,Ì'g,Ý□‡,í,¹,ðfJfXf^f}fCfY,Å,«,Ü,·□B ,±,ÌfL<code>[[,Ì'g,Ý]</code>‡,í,¹,ð‰Ÿ,·,Æ<code>]AŒ»</code>]ÝfAfNfefBfu,È (fJ<code>[[f\f<,Ì, ,é)</code> fEfBf"fhfE,ð•Ê,Ìf,fjf^,Ì"<sup>-</sup>,¶^Ê'u,É^Ú"®,Å,«,Ü,·<code>]</code>B

,±,ÌfL□[,Ì'g,Ý□‡,í,¹,ð‰Ÿ,·,Æ□AŒ»□ÝfAfNfefBfu,ÈfAfvfŠfP□[fVf‡f",ª•\ަ,³,ê,Ä,¢ ,éfffBfXfvfŒfC,Ì,·,×,Ä,ÌfEfBf"fhfE,ð□A•Ê,ÌfffBfXfvfŒfC,É<sup>´</sup>Ú"®,Å,«,Ü,·□B ,±,ÌfL□[,Ì'g,Ý□‡,í,¹,ð‰Ÿ,·,Æ□A,·,×,Ä,ÌfAfvfŠfP□[fVf‡f" fEfBf"fhfE,ðf}fEfX f| fCf"f^,ª, ,éfffBfXfvfŒfC,Ö^Ú"®,Å,«,Ü,·□B • ¡□",ÌfAfvfŠfP□[fVf‡f" fffXfNfgfbfv,ðfAfNfefBfu,É,µ,Ä,¢,é□ê□‡,Í□A,±,ÌfL□[,Ì'g,Ý□‡,í,¹,ð ‰Ÿ,µ,Ä□A″C^Ó,ÌfffXfNfgfbfv,©,ç•Ê,ÌfffXfNfgfbfv,Ö□Ø,è'Ö,¦,é,±,Æ,ª,Å,«,Ü,·□B,±,ÌfL□[,ð'±,⁻,Ä ‰Ÿ,·,Æ□AfAfNfefBfu,ÈfAfvfŠfP□[fVf‡f" fffXfNfgfbfv,ÌfŠfXfg,ð□zŠÂ,µ,Ü,·□B [fOf]][fof<]Ý'è] fy][fW,É,Í]ADesktop Manager ,Æ]ADesktop Manager ,É,æ,é,·,×,Ä,ÌfAfvfŠfP[[fVf‡f",ÌŠÇ—],ÉfOf]][[fof<,É"K—p,³,ê,éfIfvfVf‡f",ª•\ަ,³,ê,Ü,·]B  $fAfvfŠfP\Box[fVf\ddaggerf", ð\BoxufffXfNfgfbfv'S'Ì\Boxv, Å\BoxÅ'剻, \cdot, é, Æ\BoxAfffXfNfgfbfv, ª\bullet_i\Box", Ìf, fjf^, É, Ü, ½, ª, Á, Ä, ¢, é\Boxê\Box\ddagger, à\BoxA, », ÌfffXfNfgfbfv'S'Ì, É\BoxL, °, Ä\BoxÅ'剻, ³, ê, Ü, ⊡B$ 

fAfvfŠfP[[fVf‡f",ð[]uŒ»[]Ý,̉æ–Ê[]v,Å[]Å'剻,·,é,Æ[]A[]‰Šú[]Ý'è,Å,Í[]AfAfvfŠfP[[fVf‡f",ªŒ»[]Ý•\ ަ,³,ê,Ä,¢,鉿–Ê,Ì,Ý,Å[]Å'剻,³,ê,Ü,·[]B ,±,Ì‹@``\,ð—LŒø,É,·,é,Æ□A,·,×,Ä,ÌfAfvfŠfP□[fVf‡f",ÌfgfbfvfŒfxf< fEfBf"fhfE,ÅfAfNfZfX,Å,«,éfVfXfef€ f□fjf...□[,É [NVIDIA Desktop Manager] fTfuf□fjf...□[,ª'}"ü,³,ê,Ü,·□B,±,ÌfTfuf□fjf...□[,ðŽg p,·,ê,Î□ADesktop Manager ,Ì [fRf"fgf□□[f< fpflf<] ,ðŠJ,,±,Æ,È,□A[fAfvfŠfP□[fVf‡f"ŠÇ—□] <@'`\,É'f'□,-ŠÈ'P,ÉfAfNfZfX,Å,«,Ü,·□B

fAfvfŠfP□[fVf‡f" fEfBf"fhfE,ÌfVfXfef€ f□fjf...□[,Í□AfEfBf"fhfE-¼ (f^fCfgf< fo□[) □ã,Å ‰EfNfŠfbfN,·,é,©□AfEfBf"fhfE-¼,Ì□¶'[,É, ,é□¬,³,ÈfAfvfŠfP□[fVf‡f" fAfCfRf",ðfNfŠfbfN,·,é,Æ•\ ަ,³,ê,Ü,·□B ,±,ÌflfvfVf‡f",ðʻl'ð,∙,é,Æ□ADesktop Manager ,Å□A1 ,Â,̉æ-Ê,ÉŽû,Ü,é,æ,¤,Éf|fbfvfAfbfv fEfBf"fhfE,Ì^Ê'u,ð'²□®,µ,Ä□Afgfbfv fŒfxf‹,Ìf|fbfvfAfbfv fEfBf"fhfE,ªŠg'å•\ަ,³,ê,½,è□A2 'ä (,Ü,½,Í,»,ê^È□ã) ,Ìf,fjf^,É,Ü,½,ª,Á,Ä•\ަ,³,ê,é,Ì,ð-h,®,±,Æ,ª,Å,«,Ü,·□B ,±,ÌflfvfVf‡f",ð'l'ð,·,é,Æ□AfVfXfef€,Ì,·,×,Ä,Ìf|fbfvfAfbfv fEfBf"fhfE,ª□A□í,ÉŽw'è,μ,½‰æ-Ê,Ì'†‰>,É∙∖ ަ,³,ê,Ü,·□B f|fbfvfAfbfv fEfBf"fhfE,ð'†‰>,É•\ަ,∙,éf,fjf^,ð'l'ð,μ,Ü,·□B,±,ÌftfB□[f<fh,Í□A[fVfXfef€"à,Ì,∙,×,Ä,Ìf| fbfvfAfbfv fEfBf"fhfE,ðŽŸ,̉æ-Ê"Ô□†,̉æ-Ê,Ì'†‰>,É•\ަ,∙,é] f{f^f",ð'l'ð,μ,Ä,¢,é□ê□‡,Ì,ÝŽg p,Å,«,Ü,·□B ,±,ÌflfvfVf‡f",ðʻl'ð,·,é,Æ□A∙;□",Ìf,fjf^,É,Ü,½,ª,Á,Ä∙\ަ,³,ê,é□AfVfXfef€,Ì,·,×,Ä,Ìf|fbfvfAfbfv fEfBf"fhfE,ð□Af}fEfX fJ□[f\f<,Ì, ,éfffBfXfvfŒfC (f†□[fU,ªŒ©,Ä,¢,é‰Â"\□«,ª□,,¢) ,Ì′†‰>,É•\ަ,μ,Ü,·□B ,±,ÌflfvfVf‡f",ð'l'ð,·,é,Æ□AfAfvfŠfP□[fVf‡f" f|fbfvfAfbfv fEfBf"fhfE,ð□A,»,ÌfAfvfŠfP□[fVf‡f",ÌfEfBf"fhfE,Æ"<sup>-</sup>,¶‰æ-Ê,É•\ަ,µ,Ü,·□Bf|fbfvfAfbfv fEfBf"fhfE,ª,à,¤ 1 'ä,Ìf,fjf^□ã,É□u, ,Ó,ê,Ä□v•\ަ,³,ê,é,Æ□ADesktop Manager ,É,æ,Á,ÄfAfvfŠfP□[fVf‡f" fEfBf"fhfE,̉æ-Ê,ÉŽû,Ü,é,æ,¤,Éf|fbfvfAfbfv fEfBf"fhfE,ª^Ú" ® ,³,ê,Ü,·□B ,±,Ìf{f^f",ð‰Ÿ,·,Æ□ADesktop Manager ,ÌffftfHf<fg,ÌfOf□□[fof<□Ý'è,ÆfzfbfgfL□[,ª•œŒ³,³,ê,Ü,·□B f□f,: ,±,Ì'€□Ì,Í□A[fAfvfŠfP□[fVf‡f"ŠÇ—□] fy□[fW,Å□Ý'è,µ,½fAfvfŠfP□[fVf‡f",²,Æ,Ìf]fXf^f}fCfY"à—e,É,Í ‰e<¿,µ,Ü,¹,ñ□B Desktop Manager ,É'Î,µ,Ä $\Box$ s,Á,½•Ï $\Box$ X,ðŽó,<sup>-</sup>"ü,ê,Ä"K—p,µ,Ä,©,ç $\Box$ A[fRf"fgf $\Box$ [f< fpflf<] ffBff"fhfE,ð•Â,¶,é,É,Í $\Box$ A[OK] f{f^f",ð‰Ÿ,µ,Ü,· $\Box$ B

 $[]s, \acute{A}, \frac{1}{2} \bullet \ddot{I} []X, \eth \bullet \hat{U}^{\dagger} \P, \ddot{U}, \frac{1}{2}, \acute{I}^{``}K - p, \frac{1}{2}, \underline{,} \acute{E} Desktop Manager , \grave{I} [fRf^{"}fgf] [][f^{<} fpflf^{<}] ffBf^{"} fhfE, \eth \bullet \acute{A}, \P, \acute{e}, \acute{E}, \acute{I} []A[fLfff^{"}fZf^{<}] f\{f^{-}f^{"}, \eth ```, \mu, \ddot{U}, \cdot ]]B$ 

Œx□□: □Ý'è,É'Î,·,é•Ï□X"à—e,Í,·,×,Ä-³Œø,Æ,È,è,Ü,·□B

$$\label{eq:constraint} \begin{split} & [] \acute{Y} \grave{e} \bullet \ddot{I} ] X, \delta, \cdot, \times, \ddot{A}^{\prime\prime} K - p, \mu, \ddot{A} \bullet \hat{U}^{\prime} \P, \mu ] A Desktop \mbox{ Manager ,} \grave{I} \mbox{ [fRf"fgf]} [[f < fpflf < ] fEfBf"fhfE, \delta ŠJ, ¢, , '\2, U, U, É, \cdot, é, É, I ] A ["K - p] \mbox{ f} \{f^{f}, \delta \% \ddot{Y}, \mu, \ddot{U}, \vdots ] B \end{split}$$

,±,Ìf\_fCfAf□fO,Å□ADesktop Manager ,ÅŠÇ—□,·,é□V,µ,¢fAfvfŠfP□[fVf‡f",ðʻl'ð,Å,«,Ü,·□B
,±,ê,ĺfffXfNfgfbfv,ÅŒ»□ÝŽÀ□s,³,ê,Ä,¢,éfAfvfŠfP□[fVf‡f" fvf□fOf‰f€,ÌfŠfXfg,Å,·□B,± ,ÌfŠfXfg,©,çfAfvfŠfP□[fVf‡f",ð'l'ð,·,é,©□A[ŽQ□Æ] f{f^f",ð‰Ÿ,µ,ÄŒ»□ÝŽÀ□s,³,ê,Ä,¢ ,È,¢•Ê,ÌfAfvfŠfP□[fVf‡f",ðŽw'è,µ,Ü,·□B ,±,Ìf{f^f",ðfNfŠfbfN,μ,Äftf@fCf< f\_fCfAf□fO,ðŠJ,,Æ Desktop Manager ,ÅŠÇ—□,·,é"C^Ó,ÌWindows fAfvfŠfP□[fVf‡f",ð'l'ð,Å,«,Ü,·□B ʻlʻð,μ,½fvf□fOf‰f€ ftf@fCf<,ð□ADesktop Manager ,É,æ,Á,ÄŠÇ— □,³,ê,é□V,μ,¢fAfvfŠfP□[fVf‡f",Æ,μ,Ä□³"F,·,é□ê□‡,Í□A,±,Ìf{f^f",ðfNfŠfbfN,μ,Ü,·□B ,±,±,ÅfAf∨fŠfP□[fVf‡f" fvf□fOf‰f€,ðʻl'ð,μ,È,¢□ê□‡,ĺ□A,±,Ìf{f^f",ð‰Ÿ,μ,Ü,·□B[□V,μ,¢fAfvfŠfP□[fVf‡f"] f\_fCfAf□fO,Í□A□Ý'è,ð•Ï□X,¹,\_,É•Â,¶,Ü,·□B ,±,Ìf\_fCfAf□fO,Å,Í□A□V,μ,¢fAfvfŠfP□[fVf‡f" fffXfNfgfbfv,Ì-¼'O,ð"ü—ĺ,Å,«,Ü,·□B

$$\label{eq:constraint} \begin{split} & []V,\mu, \ensuremath{\varphi} fAfvf\Tilde{S}fP\D[fVf\tilde{f}fWf\tilde$$

,½,Æ,¦,Î□AWeb fuf‰fEfU—p,É,Í□uWeb□v□AE f□□[f< fvf□fOf‰f€—p,É,Í □uMail□v,È,Ç,Ì-¼'O,ðfffXfNfgfbfv,ÉŽw'è,µ,Ü,·□BDesktop Manager ,Ì□ufzfbfgfL□[□v<@"\,ðŽg—p,µ,Ä□A,± ,ê,ç,Ì,³,Ü,´,Ü,ÈfAfvfŠfP□[fVf‡f" fffXfNfgfbfv,ðfXf€□[fY,É□Ø,è'Ö,¦,é,±,Æ,ª,Å,«,Ü,·□B [OK] f{f^f",ð‰Ÿ,µ,Ä□AfffXfNfgfbfv,Ì□V,µ,¢-¼'O,ðŠm'è,µ,Ü,·□B—LŒø,È-¼'O,ð"ü—ĺ,µ,È,¢,Æ [OK] f{f^f",ĺ‰Ÿ,·,±,Æ,ª,Å,«,Ü,¹,ñ□B ,±,±,ÅfffXfNfgfbfv-¼,ð"ü—ĺ,μ,È,¢□ê□‡,ĺ□A[fLfff"fZf<] f{f^f",ð‰Ÿ,μ,Ü,·□B

,±,ÌfL□[,Ì'g,Ý□‡,í,¹,ð‰Ÿ,·,Æ□Af}fEfX fJ□[f\f<,Ì^Ê'u,É'·•ûŒ`,ªfAfjf□□[fVf‡f"Œ`Ž®,ÅŽû'©,µ,Ä,¢,,Ì,Å□AfJ□[f\ f<,ªŒ©,Â,<sup>-</sup>,â,·,,È,è,Ü,·□B ,±,ÌflfvfVf‡f",ð—LŒø,É,·,é,Æ□AfEfBf"fhfE,ðf}fEfX,Åfhf‰fbfO,µ,Ä^Ú"®,·,é,Æ,«,É□AfEfBf"fhfE,ð"C^Ó,Ì ‰æ–Ê,â•Ê,̉æ–Ê,Ì'[,ÉŠ®'S,É□‡,í,¹,ç,ê,Ü,·□B ,±,ê,ç,ÌflfvfVf‡f",Í<code>[Af^fXfNfo</code>[[,âf^fXfN<code>]Ø,è'Ö,</code>;fEfBf"fhfE,Ì"®<code>]ì,È,Ç</code>]AWindows fNf‰fCfAf"fg fZfbfVf‡f",Ìft<code>[[fU</code>][ fCf"f^ftfF<code>][fX</code>—v'f,ð•Ï<code>]X,·,é,à,Ì,Å,·</code>]B

,±,ÌflfvfVf‡f",ðʻl'ð,·,é,Æ□AʻãʻÖ,Ìf^fXfN□Ø,èʻÖ,\fEfBf"fhfE,ª—LŒø,É,È,è,Ü,·□B,±,ÌfEfBf"fhfE,Í TwinView ,ÌŒ»□Ý,Ì□Ý'è,É□],Á,ĉæ-Ê,Ì'†‰>,É•\ަ,³,ê□A^Ù,È,éfffXfNfgfbfv□ã,ÌfAfvfŠfP□[fVf‡f",Ì□Ø,èʻÖ,¦,ð‰Â"\ ,É,μ,Ü,·□B

f^fXfN□Ø,è'Ö,!fEfBf"fhfE,Í Alt+Tab fL□[,ð‰Ÿ,·,Æ—LŒø,É,È,è,Ü,·□B

,±,ÌflfvfVf‡f",ð'l'ð,·,é,Æ□Af^fXfN□Ø,è'Ö,¦fEfBf"fhfE,Í□í,ÉŽw'è,³,ê,½f,fjf^□ã,É•\ަ,³,ê,Ü,·□B

f^fXfN□Ø,è'Ö,¦fEfBf"fhfE,ð∙\ަ,·,éf,fjf^,ð'l'ð,μ,Ü,·□B'l'ð,Å,«,éf,fjf^,ĺŒ»□ÝfAfNfefBfu,Èf,fjf^,Ì,Ý,Å,·□B

,±,ÌflfvfVf‡f",ð'l'ð,·,é,Æ□Af^fXfNfo□[,ð 1 ,Â,Ìf,fjf^,ɌŒè,Å,«,Ü,·□B,Â,Ü,è□Af^fXfNfo□[,ª•¡□",Ìf,fjf^,É,Ü,½,ª,Á,Ä•\ަ,³,ê,È,¢,æ,¤,É,µ,Ü,·□B ,±,ê,ç,ÌflfvfVf‡f",É,æ,è□ADesktop Manager ,ªf□fbfZ□[fW f{fbfNfX f\_fCfAf□fO,âfAfvfŠfP□[fVf‡f" f\_fCfAf□fO,ðŠÜ,Þf|fbfvfAfbfv fEfBf"fhfE,Ì^Ê'u,â"z'u,ðŠÇ—□,·,é•û-@,ªŒ^,Ü,è,Ü,·□B ,±,ÌflfvfVf‡f",ð'l'ð,·,é,Æ[]AfY[][f€<@"\,ª—LŒø,É,È,è,Ü,·[]BfY[][f€<@"\,Í[]Af}fEfX fJ[][f\f<,ª'u,©,ê,½‰æ-Ê —Ì^æ,ÌŠg'å•\ަ,ð^ê•û,Ìf,fjf^,É•\ަ,µ,Ü,·[]BŠg'å•\ަ,Í[]Af}fEfX fJ[][f\f<,ª'u,©,ê,Ä,¢,éf,fjf^,Æ,Í•Ê,Ìf,fjf^,É•\ ަ,³,ê,Ü,·[]Bf}fEfX fJ[][f\f<,ð•Ê,Ìf,fjf^,É"®,©,·,Æ]AfY[][f€•\ަ,àŽ©"®"I,É'¼,Ìf,fjf^,É[]Ø,è'Ö,í,è,Ü,·[]B

fY□[f€<@"\,ĺ□A•;□",Ìf,fjf^,ª□Ú'±,³,ê□A□...•½,Ü,½,Í□,'¼fXfpf" f,□[fh,ª'l'ð,³,ê,Ä,¢ ,é,Æ,«,Ì,Ý<@"\,μ,Ü,·□B ,±,ÌflfvfVf‡f",ð—LŒø,É,·,é,Æ□AftfBf<f^,É,©,⁻,ç,ê,½ ('†ŠÔ'l,ð'}"ü,µ,½) "{—¦,ÅŠg'å,³,ê,Ü,·□B

^ȉº,ÌfzfbfgfL□[,Í□AfY□[f€‹@"\,Ì□§Œä,ÉŽg—p,μ,Ü,·□B [fzfbfgfL□[] f^fu,ÌfzfbfgfL□[,Æ"<sup>-</sup>— I,É□AftfB□[f‹fh,ðfNfŠfbfN,μ,Ä,©,çŠó-],·,éfL□[,Ì'g,Ý□‡,í,¹,ð‰Ÿ,μ,ÄfzfbfgfL□[,ð□Ý'è,μ,Ü,·□B

**'**□: [fY□[f€] ,Ü,½,Í [fzfbfgfL□[] fy□[fW,ªŠJ,¢,Ä,¢,éŠÔ,Í□AfzfbfgfL□[,Í-³Œø,É,È,è,Ü,·□B,± ,ê,ÍŠù'¶,ÌfzfbfgfL□[,ª□V,µ,¢fzfbfgfL□[,Ì'è<`,ð-W,°,È,¢,æ,¤,É,·,é,½,ß,Å,·□B ,±,ÌfzfbfgfL□[,Í□AfY□[f€<@"\,Ìflf",Æflft,ð□Ø,è'Ö,¦,Ü,·□B

,±,ÌfzfbfgfL□[,Í□AfY□[f€•\ަ,Ì"{—¦,ð'å,«,,μ,Ü,·□B

,±,ÌfzfbfgfL□[,Í□AfY□[f€•\ަ,Ì"{-¦,ð□¬,³,,µ,Ü,.□B

,±,Ìfpf‰f□□[f^,Í□Af}fEfX,ª"®,¢,Ä,¢,È,¢,Æ,«,ÉfY□[f€•\ަ,ð 1 •bŠÔ,ɉ½ ‰ñ□X□V,·,é,©,ðŽw'è,μ,Ü,·□B(f}fEfX,ª"®,¢,Ä,¢,é,Æ,«,ÍfY□[f€•\ަ,ÍŽ©"®"I,É□X□V,³,ê,Ü,·□B),± ,Ì□"Žš,ð'å,«,,·,é,Æ□AfVfXfef€,âfAfvfŠfP□[fVf‡f",Ì□«"\,ɉe<¿,ð—^,¦,é□ê□‡,ª, ,è,Ü,·,Ì,Å'□^Ó,µ,Ä,,¾,³,¢□B ,  $\pm$ ,  $\hat{f}pf$  for the set of t

,±,ÌflfvfVfŧf",ð'l'ð,·,é,Æ□ACtrl□AAlt□AShift ,Ì,¢,\_,ê,©,ÌfL□[,Ì'g,Ý□‡,í,¹,ð‰Ÿ,µ,È,ª,çf}fEfX fzfC□[f<,ð ‰ñ,·,±,Æ,Å□AfY□[f€•\ަ,Ì" {—¦,ð'¼□Ú•Ï□X,Å,«,Ü,·□B f}fEfX fzfC□[f<,ðŽg,Á,½fY□[f€•\ަ,Ì″{—¦•Ï□X,ð—LŒø,É,∙,é Ctrl□AAlt□AShift ,ÌfL□[,Ì'g,Ý□‡,í,¹,ð'l′ð,μ,Ü,·□B  $\label{eq:list_fbfgfl_l} [fw, h, i] AfffXfNfgfbfv, Ö, ifAfvfŠfP][fVf‡f" fEfBf"fhfE, i"z'u, \deltaŠÇ = [, \cdot, é, \frac{1}{2}, B, i] ufzfbfgfL][]v, i'g, Y] + , i, i, \deltafJfXf^f fCfY, h, «, Ü, ·]B$ 

**'**□: [fY□[f€] ,Ü,½,Í [fzfbfgfL□[] fy□[fW,ªŠJ,¢,Ä,¢,éŠÔ,Í□AfzfbfgfL□[,Í-³Œø,É,È,è,Ü,·□B,± ,ê,ÍŠù'¶,ÌfzfbfgfL□[,ª□V,µ,¢fzfbfgfL□[,Ì'è<`,ð-W,°,È,¢,æ,¤,É,·,é,½,ß,Å,·□B ,±,ÌflfvfVf‡f",ð'l'ð,·,é,Æ□A3D fAfvfŠfP□[fVf‡f",ÅfAf"f`fGfCfŠfAfX,ª-³Œø,É,È,è,Ü,·□B fAfvfŠfP□[fVf‡f",Å□Å□,,ÌfpftfH□[f}f"fX,³•K—v,È□ê□‡,Í□A,±,ÌflfvfVf‡f",ð'l'ð,µ,Ä,,¾,³,¢□B

,±,ÌflfvfVf‡f",ð'l'ð,·,é,Æ[]A2x f,[[fh,ðŽg—p, $\mu$ ,½fAf"f`fGfCfŠfAfX,ª—LŒø,É,È,è,Ü,·[]B 3D fAfvfŠfP[[fVf‡f",ÌfCf][[[fW•iŽ¿,ÆfpftfH[][f}f"fX,ªŒü[]ã, $\mu$ ,Ü,·[]B ,±,ÌflfvfVf‡f",ð'l'ð,·,é,Æ∏AGeForce3 GPU ftf@f~fŠ□[,ÅŽg—p‰Â"\,È"Á<-Žæ"¾□Ï,ÝfAf"f`fGfCfŠfAfX<Z□p,ª— Lο,É,È,è,Ü,·□B

Quincunx fAf"f`fGfCfŠfAfX,ðŽg—p,·,é,Æ□A'á'¬,Å,μ,©ŽÀŒ»,Å,«,È,¢ 4x AA f,□[fh,Ì□,•iŽ¿,ð 2x AA f,□[fh,É"— ,é□,'¬fpftfH□[f}f"fX,ÅŽÀŒ»,μ,Ü,·□B ,±,ÌfIfvfVf‡f",ðʻI'ð,·,é,Æ□A4x f,□[fh,ðŽg—p,μ,½fAf"f`fGfCfŠfAfX,ª—LŒø,É,È,è,Ü,·□B 3D fAfvfŠfP□[fVf‡f",Å□Å□,,ÌfCf□□[fW•iŽ¿,ðŽÀŒ»,μ,Ü,·,ª□AfpftfH□[f}f"fX,Í'½□'ቲ,μ,Ü,·□B ,±,ÌflfvfVf‡f",ð'l'ð,∙,é,Æ□AfAf"f`fGfCfŠfAfX,ðfTf|□[fg,∙,é 3D fAfvfŠfP□[fVf‡f",Å□Å"K,ÈfAf"f`fGfCfŠfAfX□Ý'è,ªŽ©"®"l,É—LŒø,É,È,è,Ü,·□B ,±,ÌflfvfVf‡f",ð'l'ð,·,é,Æ□A3D fAfvfŠfP□[fVf‡f",ðŽÀ□s,μ,½,Æ,«,ÉŽg—p,·,éfAf"f`fGfCfŠfAfX f,□[fh,ðŽè"®,Å'l'ð,Å,«,Ü,·□B fRf"fsf…□[f^,ÌŒ»□Ý,Ì AGP □Ý'è,ÉŠÖ,∙,é□î•ñ,Å,·□B

,±,ÌflfvfVf‡f",ð'l'ð,·,é,Æ□AfOf‰ftfBfbfNfX fTfufVfXfef€,ÅŽg—p,·,é AGP fŒ□[fg,ðŽè"®,Å'l'ð,Å,«,Ü,·□B,Ç,Ì AGP fŒ□[fg,ðŽg—p,·,é,×,«,©•ª,©,ç,È,¢□ê□‡,Í□A,±,Ìf`fFfbfNf{fbfNfX,ĺf`fFfbfN,µ,È,¢,Å,,¾,³,¢□B□Å"K,È AGP fŒ□[fg,ªŽ©"®"I,É'l'ð,³,ê,Ü,·□B fXf‰fCf\_fRf"fgf□□[f‹,ð^Ú"®,·,é,Æ□AfOf‰ftfBfbfNfX fTfufVfXfef€,ÅŽg—p,·,é AGP fŒ□[fg,ðŽè"®,Å'I'ð,Å,«,Ü,·□B
fhf‰fCfo,ªfVfXfef€ f□f,fŠ,©,çŠ,,,è"-,Ä,ç,ê,½frfffl f□f,fŠ,ðŠÇ—□,·,é•û-@,ð'l'ð,Å,«,Ü,·□B

Œ»□Ý,ÌftfŒ□[f€ fofbftf@ f,□[fh,ÅŽw'è,³,ê,½•û-@,Æ□‡,í,¹,ÄŽg—p,³,ê,éfVfXfef€ f□f,fŠ,Ì—e— Ê,ðŽw'è,Å,«,Ü,·□B ,±,ÌflfvfVf‡f",ðʻl'ð,·,é,Æ□A["®"I] ftfŒ□[f€ fofbftf@ f,□[fh,ðŽg—p,μ,½,Æ,«,ÌftfŒ□[f€ fofbftf@ f□f,fŠ,ÌŠÇ— □•û-@,ðŽw'è,Å,«,Ü,·□B Nvidia PowerMizer ,ðŽg—p,·,é,Æ□A,¨Žg,¢,Ì GPU ,Ì"d—ĺ□Á"ï,ð′²□®,Å,«,Ü,·□B[□Å'åfpf□□[fZ□[fu] □Ý'è,ð'l'ð,μ,ÄfofbfefŠ□[,ð□ß-ñ,·,é,©□A[□Å'åfpftfH□[f}f"fX] ,ð'l'ð,μ,Ä,¨Žg,¢,Ì GPU ,Å□Å'å,ÌfOf‰ftfBfbfNfX fpftfH□[f}f"fX,ð"¾,é,©□A,Ç,¿,Ç,©,ð,¨'I,Ñ,,¾,³,¢□B ,±,ÌflfvfVff‡f",ð'l'ð,·,é,Æ $\Box$ A,·,×,Ä,Ì TwinView ,Å $\Box$ AfffBfXfvfŒfC fAf\_fvf^,ª 2 ,Â,Ì'Æ—§,µ,½fffBfXfvfŒfC fffofCfX,Æ,µ,Ä Windows ‰æ-Ê,É•\ަ,³,ê,Ü,· $\Box$ B,±,ê,É,æ,è $\Box$ A1 ,Â,ÌfOf‰ftfBfbfNfX fAf\_fvf^,ðŽg p,µ,½,Æ,«,Ì $\Box$ AWindows ,ÌŠg'£fffXfNfgfbfv<@''\,ª,æ,èŽg,¢,â,·,,È,è,Ü,· $\Box$ BWindows ,Å,Í $\Box$ A,''Žg,¢,Ì GPU ,ª— Lο,È TwinView ,Í $\Box$ A2 ,Â,Ì'Æ—§,µ,½fAf\_fvf^,Æ,Ý,È,³,ê,Ü,· $\Box$ B ,±,ÌflfvfVf‡f",ðʻl'ð,·,é,Æ□Af}fXf^□[,É,æ,Á,Äf^□[fQfbfg fLf... □[,É"o˜^,³,ê,éfŠfNfGfXfg,Ì□Å'å□",ðŽw'è,Å,«,Ü,·□BfŠfNfGfXfg fLf...□[□["x,ðfhf ‰fCfo,ÅŽ©"®□Ý'è,·,é□ê□‡,Í□A[Ž©"®'l'ð] ,ðʻl'ð,µ,Ä,,¾,³,¢□B ,±,ÌflfvfVfŧf",ðʻl'ð,·,é,Æ□AAGP fCf"f^ftfF□[fX,Ì Fast Write Transaction ,ª—LŒø,É,È,è,Ü,· (,²Žg p,Ìf`fbfvfZfbfg,ÅfTf|□[fg,³,ê,Ä,¢,é□ê□‡)□B ,±,ÌflfvfVf‡f",ðʻl'ð,·,é,Æ□A3D fAfvfŠfP□[fVf‡f",Å AGP f`fbfvfZfbfg,Ì Write Combining <@"\,ª— Lο,É,È,è,Ü,·⊡B ,±,ÌflfvfVf‡f",ðʻl'ð,∙,é,Æ□A3D fAfNfZf‰fŒ□[fefbfh,Å,ĺ,È,¢fAfvfŠfP□[fVf‡f",ÅfRf}f"fh fofbftf@ fLfffbfVf"fO,ª—LŒø,É,È,è,Ü,·□B fXfefŒfl,ÌŽg—p,ð—LŒø,É,μ,Ü,· (OpenGL API ,ÅfTf|□[fg,³,ê,Ä,¢,é□ê□‡)□B

OpenGL fAfvfŠfP□[fVf‡f",ðŽÀ□s,µ,½,Æ,«,ÉfXfefŒfl f,□[fh,ðŽg—p,·,é,æ,¤,É'l'ð,µ,Ü,·□B

 $[] \$ \& E, \dot{l} \check{Z} < "_, \dot{o} " \ddot{u}, \dot{e} ' \ddot{O}, \dot{}, \dot{e}, & a, a, \dot{E} f X f e f E f [] o - \dot{I}, \dot{o} " 1/2" ], 3, 1, \ddot{U}, \cdot [] B$