

,±,}lflvfVf‡f“,ÅftfHfO fe□[fuf< fGf~f...fƎ□[fVf‡f“,ðflf“,Ü,½,Íflft,É□Ø,è'Ö,!,Ü,·□B

Direct3D ,lŽd—l,Å,í□ADirect3D fn□[fhfEfFfA fAfNfZf%fƎ□[fVf‡f“,Éî‰ž,μ,½ffBfXfvfƎfC fAf_fvf^,í□Afo□[fefbfNfX
ftfHfO,Ü,½,Ífe□[fuf< ftfHfO,!,¢,,ê,©,ðŽÀ□s,Å,«,é,±,Æ,É,È,Á,Ä,¢,Ü,·□B`ê•".}fQ□[f€,Å,í□ADirect3D fn□[fhfEfFfA,ì□«"\
,ð□³Šm,ÉŠm"F,¹,,Éfe□[fuf< ftfHfO fTf|□[fg,ð—v<□,μ,Ü,·□B,±,}lflvfVf‡f“,ð'l'ð,.,é,Æ□A,±,l,æ,ª,ÈfQ□[f€,ª NVIDIA
fOf%ftfBfbfNfX fvf□fZfbfT,Å□³□í,É"®□ì,μ,Ü,·□B

,±,l̐fIvfVf‡f“,đ'đ,·,é,Æ□Afhf%ofo,ł□V,μ,¢ DirectX <@“,Í-³Œø,É,È,è,Ü,·□B

ˆÈ‘O,łfo□[fWf‡f“,ł DirectX ‘î%ž,łfQ□[f€,l'†,É,Í□Afhf%ofo,Å—LŒø,É,È,Á,Ä,¢,éfCf“fXfg□[f<□İ,Y,ł DirectX 6 ,“,æ,Ñ 7
,Å,Í□³□í,ÉŽÀ□s,Å,«,È,¢,à,łª, ,è,Ü,·□B,±,l̐fIvfVf‡f“,đ'đ,·,é,Æ□AŒÄ,¢fQ□[f€,đ□³□í,ÉŽÀ□s,Å,«,é,æ,ª,Éfhf%ofo,đDirectX 5
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<N“@,μ,È,¢□A, ,é,¢,Í□³□í,ÉŽÀ□s,Å,«,È,¢ŒÄ,¢fQ□[f€,đŽÀ□s,·,é□ê□‡,Í□A,±,l̐fIvfVf‡f“,đ'đ,μ,Ä,,¾,³,¢□B

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"Á'è,l Z-fobftf@□["x,ð•K—v,Æ,·,é□ê□‡,ð□œ,¢,Ä□A'Ê□í,l,±,lfvfVf‡f",ð—LŒø,É,μ,Ä,"«,Ü,·□B,±,lfvfVf‡f",ð—
³Œø,É,·,é,Æ□AZ-fobftf@,l□kÆ□["x,ªŒ»□Ý,lfn□[fhfEfFfA□Ý'è,Æ^ê'v,μ,È,¢fAfvfŠfP[fVf‡f",l,·,x,Ä"®□l,μ,È,,È,è,Ü,·□B

•Ê,ì["wfofbftf@•û-@,ð—LŒø,É,μ,Ü,·□B

fn□[fhfEfFfA,ª`Ù,Ê,éf□fJfjYf€,ðŽg—p,μ,Ä 16 frfbfg fAfvfŠfP□[fVf‡f“,Ä,ì["wfofbftf@,ð□s,ρ,±,Æ,ª,Ä,«,Ü,·□B,±,ì□Ý'è,ð
—LŒø,É,·,é,Æ□A,æ,è□,,¢•iŽç,Ä 3D fCf□□[fW,ìfŒf"f_fŠf"fO,ð□s,ρ,±,Æ,ª,Ä,«,Ü,·□B

Direct3D Žg—pŽž,É NVIDIA, Ĩf□fS,đ—LŒø,É,μ,Ü,·□B

,±, Ĩ□Ý'è,đ—LŒø,É,·,é,Æ□ADirect3D fAfvfŠfP□[fVf‡f“, ĨŽĀ□sŽž,É□A%œ—Ê%°↵,É NVIDIA, Ĩf□fS,ªŽ!³,ê,Ü,·□B

NVIDIA fOf%ftfBfbfNfX fvf□fZfbfT,í□Af~fbfvf}fbfv,đŽ©“@“l,É□¶□¬,·,é,±,Æ,ĀfofXŒo—R,ìfefNfXf`ff“]‘—Œø—
!,đ□ā,°□AfAfvfŠfP□[fVf‡f“,ìpftfH□{f}f“fX,đŒü□ā,³,¹,é,±,Æ,ª,Ā,«,Ü,·□B

,μ,©,μ^ê•“,ìfAfvfŠfP□[fVf‡f“,Ā,í□Af~fbfvf}fbfv,ìŽ©“@□¶□¬,ª—LŒø,É,È,Ā,Ā,¢,é,ÆfCf□□[fW,ª□³□í,É•Ž!,³,ê,È,¢,±,Æ,ª, ,è,Ü,·
□B,±,ª,μ,½–â'è,đ%đŒ^,·,é,É,í□AfCf□□[fW,ª□³□í,É•Ž!,³,ê,é□“l,Ü,Ā□AZ©“@“l,É□¶□¬,³,ê,éf~fbfvf}fbfvfŒxf<,đ%°,°
,Ü,·□Bf~fbfvf}fbfv fŒxf<□“,đŒ,ç,·,±,Æ,Ā□A¹²,,ì□ê□‡□AfefNfXf`ff,ì,,ê,â□uŒp,¬–Ú□v,đ%đ□Ā,Ā,«,Ü,· (fpftfH□{f}
f“fX,í¹²□'á%°,μ,Ü,·)□B

fOf%oftfBfbfNfX fvf□fZfbfT,ÅŽg—p,.,éŽ©"®f~fbfvf}fbfsf"fO-@,đ'đ,Å,«,Ü,·□B

fOfCfŠfjfA-@,Ü,½,Í 8 f^fbfv^Ü•û□«-@,lf~fbfvf}fbfsf"fO-@,đ'đ,Å,«,Ü,·□BfOfCfŠfjfA-@,Å,íê"Ê"l,ÉfpftfH□[f}

f"fX,ªŒü□ã,μ□A`Ü•û□«-@,Å,ÍfCf□□[fW•iŽĸ,ªŒü□ã,μ,Ü,·□B

f~fbfvf}fbfv,ł LOD (Level of Detail) *f of Cf Af X,đ²@,Å,«,Ü,·* □B

f of Cf Af X,đ'á,□Ý'è,·é,Æf Cf □□[fW•iŽč,ªÆü□ā,μ□A f of Cf Af X,đ□,,□Ý'è,·é,Æf Af vf ŠfP□[fVf‡f",łfpftfH□[f}
f" fX,ªÆü□ā,μ,Ü,·□B□u□Å□,,łf Cf □□[fW•iŽč□v,©,ç□u□Å□,,łfpftfH□[f}f" fX□v,Ü,Å□A, ,ç,©,¶,ß□Ý'è,³,ê,½ 5
.Â,łf of Cf Af X'ł,©,ç'ł'đ,Å,«,Ü,· □B

•Ū¶,μ,½fJfXf^f€□Ý'è (,Ü,½,Í□uTweak□v) ,l̂ê——□B^ê——,©,ç□€—Ú,đ'!đ,·,é,Æ□A□Ý'è,ª—LŒø,É,È,è,Ü,·□B□Ý'è,đ“K—
p,³,¹,é,É,Í□A[OK] ,Ü,½,Í [“K—p] f{f^f“,đ'!đ,μ,Ü,·□B

Œ»□Ý,ì□Ý'è ([Direct3D ,ì□Ú□×□Ý'è] f_fCfAf□fO f{fbfNfX,ì□Ý'è,àŠÜ,þ)
,ðfJfXf^f€□uTweak□v,Æ,μ,Ä•Ů'¶,μ,Ü,·□B•Ů'¶,³ê,½□Ý'è,ª—x,îê——,É'Ç%Á,³ê,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,Ä•Ů'¶,μ,Ä,"„,Æ□AfQ□[f€
,ðŠJŽn,·,é'O,É,·,Î,â, Direct3D ,ª□Ý'è,Å,«,é,Î,Å□AŠeflfvfVf‡f“,ðŒÂ•Ê,É□Ý'è,·,éŽèŠÔ,ª□È,¯,Ü,·□B

fŠXfg,ÅŒ»□Ý'!ð,³,ê,Ä,¢,éJfXf^f€□Ý'è,δ□í□œ,μ,Ü,-□B

,·,x,Ä,l□Ý`è,ð□%Šú□Ý`è!,É-ß,μ,Ü,·□B

Direct3D ,l'Ç%Á□Ý'è,ðfJfXf^f}fCfY,Å,«,éf_fCfAf□fO f{fbfNfX,ð•Ž!,μ,Ü,·□B

,±,ḷlfvfVf‡f“,Å□AfefNfZf<(fefNfXf`ff fGfƎf□f“fg) —p,ḷfn□[fhfEfFfA fefNfXf`ff,ḷ”z’u□Ý’è,ð•i□X,μ,Ü,·□B
±,ê,ç,ḷl,ð•i□X,·,é,±,Æ,Å□AƎ³,ḷfefNfZf<,ªè<`³,ê,½□ê□Š,ª•ḷ,i,è,Ü,·□B□%Šú□Ý’è,í□ADirect3D,ḷŽd—I,É□],Á,Ä,¢
,Ü,·□Bf\ftfgfEfFfA,ḷ†,É,ḷ□AƎ³,ḷfefNfZf<,ð,¢,,ê,©,ḷ□ê□Š,É’è<`,·,é,±,Æ,ð—v□,·,é,à,ḷ,à ,è,Ü,·□B,±
,ê,ç,ḷfAfvfŠfP□[fVf‡f“,Å,í□AƎ³,ḷfefNfZf<,ð□Ä’è<`,·,é,±
,Æ,ÅfCf□□[fW•iŽč,ªƎü□ă,μ,Ü,·□B²□@,Â,Ü,Ý,ðŽg,Á,Ä□AƎ³,ḷfefNfZf<,ḷ□ê□Š,ðfefNfZf<,ḷ□¶□ă<÷,©,ç’†□S,ḷŠŎ,Å²□@,μ,Ä,-
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,±,ê,É,æ,è□A(ffBfXfvfœfC fAf_fvf^,É"◊Ú,³ê,½f□f,fŠ,É%Á,,Ä) fefNfXf`ff◊L%—p,ÉŽw'è,³ê,½—e—Ê,Ü,ÄfVfXfef€
f□f,fŠ,ð—~—p,Ä,«,é,æ,ø,ÉfOf%ftfBfbfNfX fvf□fZfbfT,ì□Y'è,δ□s,ø,±,Æ,ª,Ä,«,Ü,◊B

f□f,: fefNfXf`ff◊L%—p,ÉŽg—p,Ä,«,éfVfXfef€ f□f,fŠ,ì□Ä'â—e—Ê,Í□AfRf"fsf...□[f^,É"◊Ú,³ê,½•'—□ RAM ,ì—e—
Ê,ð,à,Æ,É,μ,ÄŽZ□o,³ê,Ü,◊BfVfXfef€ RAM ,ì—e—Ê,a'□%Á,·,é,Æ□A□Y'è,Ä,«,é'l,à'â,«,,Ê,è,Ü,◊B

,±,ì□Y'è,í□APCI fffBfXfvfœfC fAf_fvf^ (, ,é,¢,Í PCI œYŠ·f,□[fh,ÄŽÀ□s't,ìAGP fffBfXfvfœfC fAf_fvf^),¾,_,É"K—
p,³,ê,Ü,◊B

,±,ḷf l f v f V f ‡ f",đ'đ,·,é,Æ□AVSYNC ,^a-³Ǝø,É,È,è,Ü,·□B

f,fj)f^,l□,'¼fŠf g f Ǝ□[fX,ḷ⁻Šú,đ'ò,½,,É□A f C f □□[fW,đ,·,î,â,%œ-Ê,Éf Ǝ f " f _ f Š f " f O,Å,«,Ü,·□B,±
,ḷf l f v f V f ‡ f",É,æ,è□A f t f Ǝ□[f Ǝ f Ǝ□[f g,đ%œ-Ê,ḷf Š f t f Ǝ f b f V f ... f Ǝ□[f g,æ,è'â,«,·
□Ý'è,Å,«,Ü,·,^a□A f C f □□[fW•iŽç,^a1,È,î,ê,é,ì,Å□A•Ž!,É%e<ç,^a□o,½,è•Ž!,ḷ^a□Ø,ê,é,±,Æ,^a,è,Ü,·□B

,±,łfłfvfVf‡f",É,æ,è□A"Á'è,ł D3D fAfvfŠfP□[fVf‡f",ĀŽg—p,·,é fAf" f`fGfCfŠfAfX,ł—Ê,ðŒ`è,μ,Ü,·□B
fAf" f`fGfCfŠfAfX,Æ,í□A3D flfufWfFfNfg,ł%□,ÉŽž□ÜŒ©,ç,ê,é□uŠK'i□ó□v,łfGftfFfNfg,ð□Ā□—ŒÀ,É—}
,,é<Z□p,Ā,·□BfAf" f`fGfCfŠfAfX,ł—Ê,í□AŠ®'S,Èflft,©,çfAfvfŠfP□[fVf‡f",ĀŽĀ□s,Ā,«□Ā'â—Ê,Ü,Ā'I'ð,Ā,«,Ü,·□B

,±,ìfìfvfVf‡f“,í□AfAf“f`fGfCfŠfAfX,ð'¼□ÚfTf|□[fg,μ,Ä,¢,È,¢fAfvfŠfP□[fVf‡f“,ÅfAf“f`fGfCfŠfAfX,ð<□S“l,ÉŽg—
p,.,é,½,ß,ì,â,ì,Ä,·□B

,±,ìfìfvfVf‡f“,ìŽg—p,É,í□\•ª□^Ó,μ,Ä,,¾,¾,¢□BfAf“f`fGfCfŠfAfX,ð-¾Šm,ÉfTf|□[fg,μ,Ä,¢
,È,¢^ê•“,ìfAfvfŠfP□[fVf‡f“,Å,í□AfCf□□[fW,ª³□í,É•Žì,¾ê,È,¢□ê□‡,â•s<K¥,ÈfCf□□[fW,ª•Žì,¾ê,é□ê□‡,ª,è,Ü,·□BfAf“f`fG
fCfŠfAfX,ðfTf|□[fg,μ,Ä,¢,È,¢fQ□[f€,âfAfvfŠfP□[fVf‡f“,Å•Žì□ă,ì-â'è,ªª□¶,μ,½□ê□‡,í□A,±,ìfìfvfVf‡f“,ðfìft,É,μ,Ä,-
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,±,lflfvfVf‡f",É,æ,è□AfOf%ftfBfbfNfX f`fbfv,Â□^—□,³,ê,é'O,É CPU ,ª€"ð,·,éftfŒ□[f€,l□",ð□SŒÀ,μ,Ü,· (VSYNC ,ª-
³Œø,É,È,Ä,Ä,¢,é□ê□‡)□B

,,ç,©,¶,ßfŒf"f_Œf"ŒfO,³ê,éftfŒ□[f€,l□",ª½,-
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f h f % f C f o , Å OpenGL Š g ' E < @ " \ , \ GL_KTX_buffer_region , đ Ž g , ! , é , æ , ¢ , É , μ , Ü , · □ B

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GL_KTX_buffer_region Šg'£<@"\,ª—LŒø,É,È,Á,Ä,¢,é,Æ,«,É□Af□□[fJf<,l)frfffl f□f,fŠ,lŽg—p,δ%Â"\,É,μ,Ü,·□B
,½,¾,μ□AŽg—p%Â"\,Èf□□[fJf< frfffl f□f,fŠ,ª 8 MB —¢—ž,l□ê□‡,Í□Afff...fAf< fyfCf"Šg'£<@"\fTf|□[fg,Í—
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□, '¬fŠj fA-f~fbfvf}fbfv-fŠj fA ft fB f<f^fŠf“fO,δ—LŒø,É,·,é,Æ□A fC f□□[fW•iŽč,δ'½□-
'á%°,³¹,ÄfAfvfŠfP□[fVf‡f“, ðpftfH□[f}f“fX,ðŒü□ã,³¹,é,±,Æ,ª,Å,«,Ü,·□B
'Ê□í, í□A,» ,ê, ù,ÇfCf□□[fW•iŽč,ªª%°,·,é,±,Æ,Í, ,è,Ü,¹,ñ, ð, Å□A,±, ð@“\,ð—LŒø,É,µ,Äf pftfH□[f}f“fX, ðŒü□ã,ð□},Á,Ä,,¾,³,¢□B

,±,l̇f|fvfVf‡f",đŽg,ϣ,Æ□AfCf□□[fW•iŽŁ,đƐü□ā,³,¹,é,½,β,ĩ•û•û□«ftfBf<f^fŠf"fO,đ OpenGL ,ĂŽg—p,Ă,«,«,Ü,·□B

,±,ì|f|fvfVf‡f“,ð'ì'ð,·,é,Æ□A“Á'è,ì CPU ,ÅŽg—p,·,éŠg'E—½—ß,Éî,·,éfhf%o fCfo fTf|□[fg,^a—³Æø,É,È,è,Ü,·□B
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□[fg,ð—³Æø,É,Ä,«,Ü,·□BfpftfH□[f}f“fX,ð“äŠr,·,é□ê□‡,âfg%ofuf<fVf...□[fefBf“fO,ð□s,□□ê□‡,É•Ö—,Èf|fvfVf‡f“,Ä,·□B

,±,l̇fIfvVf‡f",É,æ,èAOpenGL
fhf%oCfo,Éî%ž,µ,½ižžfAf"f`fGfCfŠfAfX,ðfRf"fgr[f<,µ,Ü,·BfAf"f`fGfCfŠfAfX,Æ,íAfIfufWfFfNfg,l%□,ÉŽŽ□
ÜŒ©,ç,ê,é,¬,¬,µ,½uŠK'ió□v,l̇fGftfFfNfg,ð—},i,Ä—ÖŠs,ðŠŠ,ç,©,É,·,é<Z□p,Å,·□B1.5 x 1.5 –
@,l̇fAf"f`fGfCfŠfAfX,Å,l̇fpftfH□{f}f"X,ð—D□æ,µ□A2 x 2 –@,Å,l̇fCf□□[fW•ižč,ð—D□æ,µ,Ü,·□B

f hf%o f C f o, Å f X f e f C f l f s f N f Z f < f t f H [f } f b f g, ð f G f N f X f | [f g, Å, «, é, æ, ¢, É, µ, Ü, · □ B, » , ì C < % Ê □ A Open GL
f A f v f Š f P □ [f V f ‡ f “, Å f X f e f C f l • Ž !, ¢ — L C ø, É, È, è □ A f X f e f C f l f V f f f b f ^ □ [f O f % o f X, ð Ž g — p, ·, é, ±, Æ, ¢, Å, «, Ü, · □ B

*f*h*f*%*f*C*f*o,Å*f*l□[*f*o□[*f*Œ*f*C *f*s*f*N*f*Z*f*< *f*t*f*H□[*f*}*f*b*f*g,đ*f*G*f*N*f*X*f*|□[*f*g,Å,«,*é*,æ,ƚ,É,μ,Ü,·□BOpenGL
*f*A*f*v*f*Š*f*P□[*f*V*f*‡*f*“,Å*f*l□[*f*o□[*f*Œ*f*C,đŽg—p,Å,«,*é*,æ,ƚ,É,È,è,Ü,·□B

,±,̀|f|fVfVf‡f“,đ'!đ,·,é,Æ□AOpenGL,ÉfCf□□[fW•iŽč,đŒü□ă,³¹,é,½,ß,î`Û•û□«ftfBf<f^fŠf“fO,đŽg—p,Å,«,Û,·□B,±,̀|<@“\,đ—
LŒø,É,·,é,Æ□AfCf□□[fW•iŽč,íŒü□ă,μ,Û,·,ª□AfpftfH□[f}f“fX,íá%º,·,é,ì,Å'□^Ó,μ,Ä,,¾,³,¢□B

,±,l<@"\,ð—LŒø,É,·,é,Æ□AOpenGL fhf%o fCfo,í 1,Â,îfofbfN fofbftf@,Æ 1
Â,î□[wfofbftf@,ðftfBfXfvfŒfC,Æ"—,¶%øð'œ"x,ÂŠ,,,è"—,Â,Ü,·□B

•i□",îfEfBf"fhfE,ðŽg—p,·,é fAfvfŠfP□[fVf‡f",Â,Í□A,±,¿,ç,î•û,afrffl f□f,fŠ,ðŒø—|",ÉŽg—p,Â,«,Ü,·□B

,±,l<@"\,ð—³Œø,É,·,é,Æ□AOpenGL fhf%o fCfo,í fAfvfŠfP□[fVf‡f",Â□î□—,³,è,é,·,x,Â,îfEfBf"fhfE,ÉfobfN
fobftf@,Æ□[wfofbftf@,ðŠ,,,è"—,Â,Ü,·□B

,±,l<@"\,ðŽg—p,·,é,Æ□A•i□",îfEfBf"fhfE,ðŽg—p,·,é OpenGL fAfvfŠfP□[fVf‡f",îpftfH□[f}f"fX,aŒü□ã,μ,Ü,·□B

'I'ð,μ,½ OpenGL fAfvfŠfP[fVf‡f“,ÉÅ“K,ÈÝ"è,ðs,¢,Ü,·B

,±,lflvfVf‡f“,É,æ,è□A□%Šú□Ý’è,Å OpenGL fAfvfŠfP□[fVf‡f“,a“Á’è,ì•Ž!□F□”,lfeNfXf`ff,ðŽg—p,;,é,©,Ç,¤
,©,ðƐ~`è,μ,Ü,·□B

□uffXfNfgfbfv,lfJf%□[□“x,ðŽg—p□v,Å,í□AWindows fXfNfgfbfv,ªƐ»□ÝŽg—p,μ,Ä,¢
,éfJf%□[□“x,lfeNfXf`ff,ð□í,ÉŽg—p,μ,Ü,·□B

□u□í,É 16 bpp ,ðŽg—p□v,“,æ,Ń□u□í,É 32 bpp ,ðŽg—p□vflvfVf‡f“,Å,í□AffXfNfgfbfv,ì□Ý’è,ð–
³Ž<,μ,Ä□AŽw’è,³,ê,½fJf%□[□“x,lfeNfXf`ff,ðŽg—p,μ,Ü,·□B

,±,ìfIvfVf‡f“,É,æ,èAftf<fXfNfŠ[f“ OpenGL fAfvfŠfP[fVf‡f“—p,ìfofbftf@ ftfŠfbfv f,[fh,ðƐ^è,μ,Û,·B
ufufbfN”]’——@ƐA¢fy[fW ftfŠfbfv–
@ƐA¢Ž©“@‘l’ðv,©,ç‘l’ð,Ā,«,Û,·BūŽ©“@‘l’ðv,Ā,íAfn[fhfEfFA,ì\¬,©,çfhf%oCfo,ªĀ“K,ĚŽè–@,ðƐ^è,μ,Û,·B

,±,ìfIfvfVf‡f“,Ä,í□AOpenGL,Ä,ì□,¼“~Šú,ì□^—□•û—@,ǎŽw’è,μ,Û,·□B

□í,ÉfIfIft□B,·,x,Ä,ì OpenGL fAfvfŠfP□[fVf‡f“,Ä□,¼“~Šú,^a□í,É—³Œø,É,È,è,Û,·□B

□%Šú□Y’è,Ä,íIfIft□B—LŒø,É,·,é,æ,α,ÉfAfvfŠfP□[fVf‡f“,©,ç—¾Šm,É—v<□,³è,Ä,¢,é,Æ,«^ÈŠO,í□A□,¼“~Šú,ǎ—³Œø,É,μ,Ä,“,«,Û,·□B

□%Šú□Y’è,Ä,íIfIft“□B—³Œø,É,·,é,æ,α,ÉfAfvfŠfP□[fVf‡f“,©,ç—¾Šm,É—v<□,³è,Ä,¢,é,Æ,«^ÈŠO,í□A□,¼“~Šú,ǎ—LŒø,É,μ,Ä,“,«,Û,·□B

Œ»□Ý,ì□Ý'è,ðfJfXf^f€□Ý'è,ì□uTweak□v,Æ,μ,Ä•Ů*¶,μ,Ü,·□B•Ů*¶,μ,½□Ý'è,Í—×,è,ìfJfXf^f€□Ý'èfŠfXfg,É'Ç%Á,³ê,Ü,·□B
,,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,Ä•Ů*¶,μ,Ä,"-
,Æ□Afvf□fOf%of€,ðŠJŽn,·,é'O,É,·,Î,â, OpenGL ,ð□Ý'è,Å,«,é,ì,Å□AŠeflfvfVf‡f",ðŒÂ•Ê,É□Ý'è,·,éŽèŠÔ,^a□È,¯,Ü,·□B

'²Ⓢ,Â,Û,Ý,ðŽg,Á,Ä⊠A'!ð,μ,½fJf%⊠[f`fff“flf<,!–¾,é,³⊠AfRf“fgf%⊠Xfg⊠AfKf“f}!l,ð'²Ⓢ,Â,«,,Û,·⊠B

fJf%⊠[•â⊠³²Ⓢ,ðŽg—p,μ,Ä⊠Af\⊠[fX fCf⊠⊠[fW,ÆffBfXfvfƎfC fffoƎCfX,Â,l⊠o—Í,Æ,ìŠÔ,Â⊠¶,¶,é<P"x,ì,î,ç,Â,«,,ð•â⊠³,·,é,±
,Æ,^a,Â,«,,Û,·⊠BfCf⊠⊠[fW⊠^—⊠fAfvfŠfP⊠[fVf‡f“,ðŽg—p,μ,Ä,¢,é⊠ê⊠‡⊠A,±,}◁@“\,É,æ,Á,ÄfCf⊠⊠[fW (ŽÊ⊠^,È,Ç)
,ðf, f}f^,É•Ž!,·,é,Æ,«,,ìfJf%⊠[ð,³,ç,É⊠³Šm,É⊠ÄƎ»,·,é,±,Æ,^a,Â,«,,Û,·⊠B

,Û,½⊠A'½,,ì 3D fAfNfZf%fƎ⊠[fefbfh fQ⊠[f€,Â⊠A•Ž!,^aÄ,·,¬,ÄfvfƎfC,Â,«,,È,¢,±,Æ,^a ,è,Û,·⊠B,·,×,Ä,ìf`fff“flf<,Â<ï™,É–
¾,é,³,âfKf“f}!l,ð⊠ã,°,ê,î⊠A•Ž!,^a–¾,é,,È,èfvfƎfC,μ,â,·,,È,è,Û,·⊠B

,Â,Ü,Ý,ðŽg—p,μ,Ä□A'²□@,·,éJf%□[f`fff“flf<,ð'l'ð,Â,«,Ü,·□B□Ô□A—î□A□Â,ìf`fff“flf<,ðŒÂ•Ê,É'²□@,μ,½,è□A3
□F,ð“Žž,É'²□@,Â,«,Ü,·□B

ffWf^f< fo fCfuf%of“fX,í AfJf%□[,l•a□□đ,ÆfJf%□[“Z“x,}fRf“fgf□□[f<đ<%□□»,μ□A, ,ç,ä,éfAfvfŠfP□[fVf‡f“,Å–%,é,‘N–
%,ÈfCf□□[fW,đ•\Œ»,μ,Ü,· □B

fJf%[<Èü,ðfOf%ftfBfbfN•Ž!,μ,½,à,)\BfRf“fgf%fXfgA–%,é,³AfKf“f},ð¹²@,.,é,ÆA,±,)<Èü,^afŠfAf<f^fCf€
,Â•l%»»,μ,Ü,.B

,±,̀l f l f v f V f ‡ f “, ð ‘ l ‘ ð , · , é , Æ □ A Windows , º □ Ä < N “ ® , μ , ½ , Æ , « , É , ± , ± , Å □ Ý è , μ , ½ f J f % □ [¨ ² □ ® , º Ž © “ ® “ l , É • œ Æ ³ , ³ è , Ü , · □ B

f □ f , : f R f “ f s f ... □ [f ^ , º f l f b f g f □ □ [f N □ ã , Å “ ® □ i , μ , Ä , ¢ , é □ ê □ ‡ □ A f J f % □ [¨ ² □ ® , ³ è , é , ì , l Windows , É f □ f O f l f “ , μ , ½ Æ ã , Å , · □ B

•Ů'¶,μ,½fJf%□[fJfXf^f€□Ý'èfŠfXfg□BfŠfXfg,©,ç□€–Ú,ð'l'ð,.,é,Æ□A□Ý'è,^a—LŒø,É,È,è,Ü,·□B

Œ»□Ý,lfJf%□[□Ýè,ðfJfXf^f€□Ýè,Æ,μ,Ä•Ů*¶,μ,Ü,·□B•Ů*¶,³ê,½□Ýè,a—x,lfŠfXfg,É'Ç%Á,³ê,Ü,·□B

fŠXfg,ÅŒ»□Ý'!ð,³,ê,Ä,¢,éJfXf^f€ fJf%□[□Ý'è,ð□í□œ,μ,Ü,·□B

,·,x,Ä,lfJf%□[!l,ðfn□[fhfEfFA□o%×Žž,ì□Ý'è,É-ß,μ,Ü,·□B

^È%°,ìf,fjff^ f^fCf~f“fO f,□[fh,δ'ì'ð,Ä,«,Ü,·□B

Ž@“@ŒŸ□o□BWindows ,^af,fjff^,©,ç“K□Ø,Èf^fCf~f“fO□î•ñ,ð'¼□ÚŽó□M,μ,Ü,·□B,±,ê,^a□%Šú□Ý'è,Æ,È,Ä,Ä,ç
,Ü,·□BŒÄ,çŒ^,ìf,fjff^,Ä,í□A,±,ì<@“\,^afTf|□[fg,³è,Ä,ç,È,ç,±,Æ,^a ,è,Ü,·,ì,Ä,²□“Ó,,¾,³,ç□B

GTF (General Timing Formula) ,í□A□V,μ,çfn□[fhfEfFfA,ì'â•“^a,ÄŽg—p,³è,Ä,ç,é<KŠi,Ä,·□B

DMT (Discrete Monitor Timings) ,í□A^ê•“,ìfn□[fhfEfFfA,ÄŽg—p,³è,Ä,ç,éŒÄ,ç<KŠi,Ä,·□B,²Žg—p,ìf,fjff^,Ä DMT
,^aŽw'è,³è,Ä,ç,é□ê□‡,í□A,±,ìfIfvfVf‡f“,ð—LŒø,É,μ,Ä,,¾,³,ç□B

[NVIDIA QuickTweak] fAfCfRf“,ð Windows f^fXfNfo□[.É•Ž!,μ,Ü,·□B

,±,ìfAfCfRf“,ðŽg—p,·,é,Æ□A•Ö—~,Èf|fbfvfAfbfv f□fj f...□[.©,çfJfXf^f€ Direct3D□AOpenGL□AfJf%□[□Y'è,ð,·,Î,â,"K—
p,Å,«,Ü,·□B,Ü,½□A,±,ìf□fj f...□[.É,Í□%Šú□Y'è,É–ß,·,½,ß,ì□€–Ú,â [‰æ–Ê,ìfvf□fpfefB] f_fCfAf□fO
f{fbfNfX,ÉfAfNfZfX,·,é,½,ß,ì□€–Ú,àŠÜ,Ü,è,Ä,¢,Ü,·□B

Windows *f^XfNfo* Å QuickTweak *f†* *[fefBfŠfefB,Æ,μ,Ä•Ž!*,*éAfCfRf*“,*đ'!đ,Å,«,Ü,·* B

•Ž!*,^{3,1,½,¢fAfCfRf}*“,*đfŠfXfg,©,ç'!đ,μ,Ä,,¾,³,¢* B[OK] ,Ü,*½,Í* [“K—p] ,*đ'!đ,μ* *Af^XfNfo* *[,lAfCfRf*“,*đ* X V,μ,Ü,*·* B

NVIDIA Desktop Manager ,^a—LŒø,É,È,è,Ü,·□B

NVIDIA Desktop Manager ,đŽg—p,·,·,é,Æ□AnView f}f<f` f,fjff^□Ý'è,lŽg—pŽž,É□AfEfBf"fhfEŠÇ—□fzfbfvg
fL□[□Af_fCfAf□fO f{fbfNfX,l}ŠfZf"f^fŠf"fO□AfY□[f€,È,Ç,lŠg'E<@"\,đŽg—p,Å,«,·,·,·□B,Ü,½□ADesktop Manager ,đŽg—
p,·,·,é,Æ□A•i□",lffXfNfvgfbfv,^afTf|□[fg,³ê,é,½,ß□AfAfvfŠfP□[fVf‡f" f□□[fNfXfy□[fX,l□@—□,É—đ—S,¿,Ü,·□B

[NVIDIA Desktop Manager □Ý`è) f_CfAf□fO f{fbfNfX,aŠJ,«,Ü,·□B

[Desktop Manager □Y'è] f_□CfAf□fO f{fbfNfX.Ä,□Af_□CfAf□fO f{fbfNfX.lfSfZf"^^fSf"fo flfvfVf#f",âfzfbfq
fL□,l[i]ï'ð□AfAfVfSfP□[fvf#fSÇ—□,□Y'è.È,Ç□A.,x,Ä, Desktop Manager ,l@",Æ□Y'è,ð□SÇÄ.ä,«,Ü., □B

[$\square \acute{U} \square \times f v f \square f p f e f B$] $f_f C f A f \square f O$ $f\{f b f N f X, \text{\AA} [\acute{I}, \text{\textcircled{C}}], \ddot{U}, \frac{1}{2}, \acute{I} [^{\text{K}}\text{---}p], \delta^{\text{'}} \delta, \mu, \ddot{A}^{\bullet} \ddot{I} \square X, \delta^{\text{K}}\text{---}p, \cdot, \acute{e}, \frac{1}{2}, \beta, \acute{E} \square A, \pm, \grave{I} f_f C f A f \square f O$
 $f\{f b f N f X, \delta^{\bullet} \hat{A}, \P, \ddot{A}^{\bullet} \ddot{I} \square X, \delta^{\bullet} \acute{U}^{\text{'}} \P, \mu, \ddot{U}, \cdot \square B$

$f^XfNfo\lceil fAfCfRf^{\text{“}},\partial fNf\check{S}fbfN,\mu,\frac{1}{2},\text{Æ},\ll,\acute{E}\Box A,\text{Ç},\text{¿},\text{ç},\text{ł}\rceil\}fEfX\ f\{f^{\text{“}},\hat{A}f\Box f\}f\ldots\Box[\text{,}\delta^{\text{“}}\text{Ž!},^3\text{,}\acute{e},\text{©!}^{\text{“}}\delta,\hat{A},\ll,\ddot{U},\cdot\Box B$

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

f^fXfNfo□[f□fj f ...□[.©,ç 3D □Ý'è,ðf□□[fh,μ,½,Æ,«,ÉŠm" Ff□fbfZ□[fW,ð'Ž',³,¹,È,¢,æ,²,É,·,é,É,Í□A,±
, ðf ðfVfVf‡f",ðf`fFfbfN,μ,Ä,,¾,³,¢□B

$f^XfNfo[f\ldots[{\mathfrak{d}}\,3D\bullet\check{Z}_i^{\frac{3}{4}},\frac{1}{2},\P\hat{e}\ddagger,\acute{\imath}A,\pm,\grave{\imath}f\imath f\vee f\vee f\ddagger f^{\circ},\delta^{\circ}\delta,\mu,\ddot{U},\cdot B$

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 fplf<
ffBfXfvfœfC□ã,ÉfCf□□[fW,ð•Ž!,³,¹,é`Ê'u,ðœ`è,μ,Ü,·□B

-ĩó{f^f“,đŽg,Á,Ä□Af,fj f^□ã,ìffXfNfgfbfv,ìÊ'u,đ²□@,μ,Ü,·□B

Œ»□Ý,ł%đ'œ"x,ÆfŠftfŒfbfVf... fŒ□[fg,É,¨,´,é□%Šú□Ý'è,ìÊ'u,ÉffXfNfgfbfv,ð-ß,μ,Ü,·□B

,±,ê,ç,ì|f|vfVf‡f",©,ç□A,²Žg—p,ìffBfXfvfƎfC fAf_fvf^,afTf|□[fg,,:éffofCfX,É,æ,Á,Ä□A□o—íffBfXfvfƎfC fffofCfX
(f,j)f^□AfffWf^f< ftf%fbfg fpf|f<□AfefƎfr,È,Ç□j ,đ'!đ,Ā,«,«,Ü,·□B

fAfNfefBfu,ÈffBfXfvfÆfC fffofCfX,ì□Ý'è,ðfJfXf^f}fCfY,·,é,½,ß,lfEfBf“fhfE,ªŠJ,«,Ü,·□B

TV □o—f,ĀŒ»□ÝŽg—p,³ê,Ä,¢,éŒ`Ž@,Æ'n^æ,l□Ý'è,ðŽ!,μ,Ü,·□B

“ÁŽê,È TV □o—íĈ`Ž®,đŽw`è,·é,½,β,)fEfBf“fhfE,ªŠJ,«,Ü,·□B

,±,ìfŠfXfg,©,ç,“□Z,Ü,ϕ,ì□‘-¼,ð‘ìð,μ,Ä TV □o—ÍŒ`Ž®,ðŒ^è,μ,Ü,·□B

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'l'δ,μ,½Ǝ`Ž®,δ“dƎ1“Š“üŽž,l□%Šú□Ý'è,É□Ý'è,μ,Ü,·□B

,±,łfłfvfVf‡f“,đ'l'đ,·,é,Ǝ□AftfBfXfvfƎfC fAf_fvf^,ÉfefƎfr^ÈŠO,đ□Ú'±,μ,È,¢,ÅfRf“fsf...□[f^,đ<N“®,μ,Ä,¢
,é□ê□‡,É□A<N“®'†,É•Ž!,'³,ê,é,·,×,Ä,l%œ–Êf□bfZ□[fW,ªfefƎfr,ªfTf|□[fg,·,éƎ`Ž®,Ä•Ž!,'³,ê,Ü,·□B

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Í,·,é,±,Æ,^aÅ,«,Ü,·,□B,Ç,ìf^fCfv,ð'I'ð,·,ê,î,¢,©,^a©,ç,È,¢□ê□‡,Í□A□uŽ©“@'I'ð□v□Ý'è,ð'I'ð,μ,Ä,,¾,³,¢□B

–îó{f^f“,đŽg,Á,Ä□ATV □ã,łffXfNfgfbfv,îÊ'u,đ'²□@,μ,Ä,,¾,¾,¢□B

f□f,: '²□@,đĈĖĕ,Á,Ä TV %æ'œ,'ª—□,ĕ,½,ĕ%½,â•łŽ!,¾,ĕ,Ė,,Ė,Á,½□ĕ□‡,Í□A,»,ł,Ü,Ü 10 •bŠŎ,“Ŏ,Ĺ,-
,¾,¾,¢□B%æ'œ,'ªŽ©“@“ł,É□%Šú□Ý'ĕ,îÊ'u,É–Ĭ,ĕ,Ü,·□B,»,łĈĖã,à,ª^ĕ“x'²□@,μ,Ä,-
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,±,ê,ç,ìfRf"fgf□□[f<,ðŽg—p,μ,Ä□ATV %œ'œ,ì-¾,é,³/E□Ê"x,δ'²□@,μ,Ü,·□B

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,±,łfRf"fgf□□[f<,đŽg—p,μ,Ä□ATV □M□†,É"K—p,.,éftfŠfbfJ ftfBf<f^,ł—Ê,đ'²□®,μ,Ü,·□B

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,±,±,É,Í□ACE»□Ý'!δ,³,ê,Ä,¢,é/Of%ftfBfbfNfX fAf_fvf^,}fn□[fhfEfFfA,ÉŠÖ,·,é□Ý'u,}□Ú□×,ª\Ž!,³ê,Ü,·□B

fOf%ftfBfbfNfX,Ì'S'ì"l,ÈfpftfH□[f}f"fX,É%œ<¿,·,éVfXfef€,ì□Ý'è,ð'l'ð,·,é,Æ□A,»,ê,ÉŠÖ,·,é□Ú□x,ª,Ž!³,ê,Ü,·□B

,±,|•,|□ANVIDIA,|fOf%ftfBfbfNfX fAf_fvf^,ÂĖ»□ÝŽg—p,³,ê,Ä,¢,éftf@fCf<,l`ê——,Æî%ž,.,éfo□[fWf‡f“,ďŽ!,μ,Ü,·□B

[fAfvfŠfP□[fVf‡f“ŠÇ—□]
□Ý'èfy□[fW,Å,í□AfAfvfŠfP□[fVf‡f“²,Æ,É□A•i□",ìffBfXfvfƆfC,âffXfNfgfbfvŠÔ,Å,ìfAfvfŠfP□[fVf‡f“
fEfBf“fhfE,ì•ŽìÊ'u,ðŠÇ—□,Å,«,Ü,·□B

,±,ê,Í Desktop Manager ,ÂŒ»□ÝŠÇ—□,³,ê,Ä,¢
,éfAfvfŠfP□[fVf‡f“,\fŠfXfg,Â,·□BfŠfXfg,©,çfAfvfŠfP□[fVf‡f“,ð'I'ð,μ□AfAfvfŠfP□[fVf‡f“ŠÇ—
□□Ý'è,ð□Ý'è,μ,Ü,·□BfŠfXfg,l•Ò□W,í□A‰E'α,É, ,é [‘Ç‰Á] f{f^f“,Æ [□í□œ] f{f^f“,ðŽg,Á,Ä□s,¢,Ü,·□B

,±,̀f{f^",ðfNfŠfbfN,.,é,Æ□ADesktop Manager ,ÂŠÇ—□,³,é,fAfvfŠfP□[fVf‡f“,̀fŠfXfg,É□V,μ,¢fAfvfŠfP□[fVf‡f“
fvf□fOf%œf€,ªÇ%œÁ,³,ê,Û,.□B

,±,ł{f^",ðfNfŠfbfN,.,é,Æ□ADesktop Manager ,ÂŠÇ—□,³,ê,éfAfvfŠfP□[fVf‡f“,łfŠfXfg,©,ç□ACE»□Ý'!ð,³,ê,Ä,¢
,éfAfvfŠfP□[fVf‡f“,ªí□œ,³,ê,Ü,·□B

,±,ł{f^",đ%Ÿ,μ,Ä□AfAvfŠfP□[fVf‡f" fŠfXfg,ł,.,x,Ä,łfGf"fghŠ,đfNfŠfA,μ,Ü,·□B

Æx□□: fGf"fghŠ,đ,.,x,ÄfNfŠfA,.,é,Æ□AfAvfŠfP□[fVf‡f",É'Î,.,éJfXf^f}fCfY"à—e,Í,.,x,ÄfŠfZfbfg,³,ê,Ü,·□B

,±,łfłfvfVf‡f“,đ'đ,·é,Æ□AfAvfŠfP□[fVf‡f“ fEfBf“fhfE,ª□í,ÉŽw'è,μ,½ffBfXfvfƆfC,Å«N“®,·,é,æ,ª,É,È,Ü,·□B

[,±,]fAfvfŠfP[fVf‡f“,đ□í,ÉŽŸ,ì%œ–Ê“Ô□†,ì%œ–Ê,Â<N“®,,.é] flfvfVf‡f“,ªI'đ,³ê,Ä,¢,é□ê□‡□ACE»□ÝI'đ,³ê,Ä,¢
,éfAfvfŠfP[fVf‡f“,ª□í,É<N“®,,.éftfBfXfvfƎfC (f,fj f^),đ,±,]ftfB[f<fh,ĂŽw'è,µ,Ü,.□B

,±,lflvfVf‡f",đ'!đ,·,é,Æ□ADesktop Manager ,É,æ,Á,ÄfAfvfŠfP□[fVf‡f"
fEfBf"fhfE,lfTfCfY,Æ`Ê'u,ªL%¯,³,ê,Ü,·□BŽŸ,ÉfAfvfŠfP□[fVf‡f",đ<N"®,·,é,Æ□ADesktop Manager ,É,æ,è<L%¯,³,ê,Ä,¢
,½fTfCfY,Æ`Ê'u,ÄfAfvfŠfP□[fVf‡f" fEfBf"fhfE,ªŽ!,³,ê,Ü,·□B

,±,l̇fI fvfVf‡f“,đŽg—p,·,é,Æ□AfAvfŠfP□[fVf‡f“
fEfBf“fhfE,đ□Ā'â%»,.·,é□Ŭ,É□A•i□“,l̇ffBfXfvfƎfC,É,Ŭ,½,^a,éffXfNfgfbfv'Sì,Ā□Ā'â%»,.·,é,l̇Ā,í,È,-
□A,»,l̇fEfBf“fhfE,^aƎ»□Ý•\Ž!,³,ê,Ä,ƒ,é%»æ—Ê,l̇,Ý,Ā□Ā'â%»Ā,«,Ŭ,·□B

,±,łfłfvfVf‡f“,đ'đ,·é,Æ□A,±,łfAfvfŠfP□[fVf‡f“,đ•Ê,ł–¼'O,łfAfvfŠfP□[fVf‡f“ fffXfNfgfbfv,Â<N“®,Â,«,Ü,·□B
—á,ł,ł□A□%Šú□Ý'è,ł Windows fffXfNfgfbfv,ł¼,É□AWeb fuf%fEfU—p,â“dŽqf□□[f<—
p,ł•Ê,łffXfNfgfbfv,đ□ì□¬,Â,«,Ü,·□B

,±,±,É•Ê,\\fAfvfŠfP□[fVf‡f“ fffXfNfgfbfv,\\-¼'O,ð“ü—Í,μ,Ü,·□B,Ü,½□Afhf□fbfvf_fEf“
f{f^f“,δŽg,Á,Ä□A•Ê,\\fAfvfŠfP□[fVf‡f“—p,ÉŠù,É□ì□¬,μ,Ä, ,éffXfNfgfbfv,©,ç'I'ð,·,é,±,Æ,à,Å,«„Ü,·□B
,±,\\ftfB□[f<fh,Í□A[,±,\\fAfvfŠfP□[fVf‡f“,ð•Ê,\\ffXfNfgfbfv,Å<N“@,·,é] flfvfVf‡f“,ð'I'ð,μ,Ä,¢,é□ê□‡,\\,ÝŽg—p,Å,«„Ü,·□B

[fzfzbfz fL[] fy[] [fW,Ä,í[]AfffXfNfgfbfv,Ö,ìfAfvfŠfP[] [fVf÷f“ fEfBf“fhfE,ì”z'u,ðŠÇ—[],.,é,½,ß,ì[]ufzfzbfz
fL[] [v,ì'g,Ý[]±,í,¹,ðfJfXf^f}fCfY,Ä,«,Ü,.[]B

,±,lfL□[,l'g,Ý□‡,í,¹,δ%Ÿ,.,Æ□ACE»□ÝfAfNfefBfu,È (fJ□[f\fc,l, ,é) fEfBf“fhfE,δ•Ê,l,f,fjff^,l“¬,¶Ê`u,É`Ú“®,Å,«,Ü,·□B

,±,łfL□[,ł'g,Ý□±,í,í,δ%Ÿ,.,Æ□ACE»□ÝfAfNfefBfu,ÈfAfvfŠfP□[fVf‡f“,ª\Ž!,³,ê,Ä,¢
,éffBfXfvfƎfC,ł,.,×,Ä,łfEfBf“fhfE,ð□A•Ê,łffBfXfvfƎfC,É`Ú“®,Ä,«,Ü,·□B

,±)fL□[.̀g,Ý□‡,í,¹,ð%Ÿ,.,Æ□A,.,x,Ä,lfAfvfŠfP□[fVf‡f“ fEfBf“fhfE,ðf}fEfX f|fCf“f^,ª, ,éffBfXfvfEfC,Ö`Ú“®,Å,«,Ü,·□B

•i□",l̂fAfvfŠfP□[fVf†f" fffXfNfgfbfv,đfAfNfefBfu,É,μ,Ä,¢,é□ê□†,í□A,±
l̂fL□[,l̂g,Ÿ□†,í,†,đ%Ÿ,μ,Ä□A"C^Ó,l̂ffXfNfgfbfv,©,ç•Ê,l̂ffXfNfgfbfv,Ö□Ø,è'Ö,l̂é,±,Æ,^aÂ,«,Ü,·□B,±,l̂fL□[,đ±
,¯,Ä%Ÿ,·,Æ□AfAfNfefBfu,ÊfAfvfŠfP□[fVf†f" fffXfNfgfbfv,l̂fŠfXfg,đ□zŠÂ,μ,Ü,·□B

[fOf□□[fof<□Ý`è] fy□[fW,É,í□ADesktop Manager ,Æ□ADesktop Manager ,É,æ,é,·,x,Ä,ìfAfvfŠfP□[fVf‡f“,ìŠÇ—
□,ÉfOf□□[fof<É"K—p,³,ê,élfvfVf‡f“,ª\Ž,³,ê,Ü,·□B

fAfvfŠfP□[fVf‡f“,δ□ufffXfNfgfbfv’Sì□v,Å□Å’â%»,-,é,Æ□AfffXfNfgfbfv,a•i□“,lf,fjff^,É,Ü,½,a,Á,Ä,¢
,é□ê□‡,à□A,»,lffXfNfgfbfv’Sì,É□L,°,Ä□Å’â%»,,³,ê,Ü,-□B

fAfvfŠfP□[fVf‡f“,δ□uÆ»□Ý,l%æ-Ê□v,Å□Å’â%»,-,é,Æ□A□%Šú□Ý’è,Å,[□AfAfvfŠfP□[fVf‡f“,aÆ»□Ý•Ž!,³,ê,Ä,¢,é%æ-
Ê,l,Ý,Å□Å’â%»,,³,ê,Ü,-□B

,±,ì<@“\,ð—LÆø,É,.,é,Æ□A,.,x,Ä,ìfAfvfŠfP□[fVf±f“,ìfgfbfvfÆfxf< fEfBf“fhfE,ÅfAfNfZfX,Å,«éVfXfef€ f□fjf...□[É
[NVIDIA Desktop Manager] fTfu f□fjf...□[“ü,³ê,Ü,·□B,±,ìfTfu f□fjf...□[ðŽg—p,.,ê,î□ADesktop Manager ,ìfRf“fgf□□[f<
fpfIf<,ðŠJ,,±,Æ,È,□A[fAfvfŠfP□[fVf±f“ŠÇ—□] <@“\,É“□,ŠÈ‘P,ÉfAfNfZfX,Å,«ü,·□B
fAfvfŠfP□[fVf±f“ fEfBf“fhfE,ìfVfXfef€ f□fjf...□[í□AfEfBf“fhfE→¼ (f^fCf gf< fo□D)
□ă,Å%EfNfŠfbfN,.,é,©□AfEfBf“fhfE→¼,ì□¶[É, ,é□¬,³ÈfAfvfŠfP□[fVf±f“ fAfCfRf“,ðfNfŠfbfN,.,é,Æ•Ž,³ê,Ü,·□B

,±,l|f|fVfVf‡f“,đ'!đ,·,é,Æ□ADesktop Manager ,Â□A1 ,Â,l%œ–Ê,ÊŽŮ,Ů,é,æ,ρ,Éf|f|b|f|v|f|A|f|b|f|v
fEfBf“fhfE,îÊ“u,đ’²□@,μ,Ä□Afgf|b|f|v fEf×f<,l|f|f|b|f|v|f|A|f|b|f|v fEfBf“fhfE,ªŠg’å•Ž!,³,ê,½,ê□A2 ‘ä (,Ů,½,l,»,ê“È□ä)
,l|f,|f|j|f^,É,Ů,½,a,Á,Ä•Ž!,³,ê,é,l,đ–h,®,±,Æ,a,Á,«,«,Ů,·□B

,±,łfłfvfVf‡f",đ'đ,·é,Æ□AfVfXfef€.,·,x,Ä,łfłfbfvfAfbfv fEfBf"fhfE,ª□A□í,ÉŽw'è,μ,½%œ–Ê,ł'†%>,É•Ž!,³ê,Ü,·□B

f|fbfvfAfbfv fEfBf“fhfE,ð'†%»‚É•Ž|‚‚éƒ‚fj^‚ð'ð‚μ‚Ü‚‚□B‚±‚)ftfB□[f<fh‚í□A[fVfXfef€“à‚‚‚‚x‚Ä‚)f|fbfvfAfbfv
fEfBf“fhfE‚ðŽŸ‚l%»æ–Ê“Ô□†‚l%»æ–Ê‚l'†%»‚É•Ž|‚‚é] f{f^f“‚ð'ð‚μ‚Ä‚¢‚éê□‡‚‚‚ŸŽg—p‚Ä‚«‚Ü‚‚□B

,±,łf|fvfVf‡f",đ'đ,·é,Æ□A•ı□",łf,fj f^É,Ü,½,^a,Ä,Ä•Ž!³,ê,éfVfXfef€,^l,·,x,Ä,łf|fbfvfAfbfv fEfBf"fhfE,đ□Af}fEfX
fJ□[f\fc,^l,éffBfXfvfƐfC (f†□[fU□[^aƐ©,Ä,¢,é%oÂ"□«,^a□,,¢) ,ł†%o>,É•Ž!^l,μ,Ü,·□B

,±,łfłvfVf‡f“,đ'đ,·,é,Æ□AfAvfŠfP□[fVf‡f“ f|fbfvfAfbfv
fEfBf“fhfE,đ□A,»,łfAvfŠfP□[fVf‡f“,łEfBf“fhfE,Æ““„ŀ%œ–Ê,Ê•Ž,μ,Ü,·□Bf|fbfvfAfbfv fEfBf“fhfE,ª,à,ª 1
'à,łf,fj^□ā,É□u,ł,Ý□o,μ,Ä□v•Ž!,³ê,é,Æ□ADesktop Manager ,Ê,æ,Á,ÄfAvfŠfP□[fVf‡f“ fEfBf“fhfE,ł%œ–Ê,ÊŽû,Ü,é,æ,ª,Éf|
fbfvfAfbfv fEfBf“fhfE,ª^Ú“@,³ê,Ü,·□B

,±,ł{f^",đ%Ÿ,.,Æ□ADesktop Manager ,łfftHf<fg,łfOf□□[fof<Ÿ'è,Æfzfbfg fL□[^a•œƐ³,ê,Ü,.-□B

f□f,: ,±,ł'€□i,í□A[fAfvfŠfP□[fVf‡f"ŠÇ—□] fy□[fW,Å□Ÿ'è,μ,½fAfvfŠfP□[fVf‡f",?,Æ,łfJfXf^f)fCfY"à—
e,É,í%e<ç,μ,Ü,¹,ñ□B

Desktop Manager ,É'î,μ,Ä□s,Á,½•İ□X,ðŽó,¯“ü,ê,Ä"K—p,μ,Ä,©,ç□A[fRf“fgf□□[f< fpflf<} fEfBf“fhfE,ð•Â,¶,é,É,í□A[OK]
f{f^f“,ð‰Ÿ,μ,Ü,·□B

□s,Á,½•İ□X,ð•Û'¶,Ü,½,Í"K—p,¹,,É Desktop Manager ,ì [fRf"fgf□□[f< fpflf<] fEfBf"fhfE,ð•Â,¶,é,É,Í□A[fLff"fZf<]
f{f^f",ð%Ÿ,µ,Ü,·□B

⊕Ex□□: □Ý'è,ÉÍ',,é•İ□X"à—e,Í,·,x,Ä–³⊕ø,Æ,È,è,Ü,·□B

□Ý'è•ī□X,ð,;,x,Ä"K—p,μ,Ä•Ů"¶,μ□ADesktop Manager ,ì [fRf"f g f□□[f< f p f l f<] f E f B f"f h f E,ðŠJ,¢,½,Ü,Ü,É,;,é,É,í□A["K—p]
f{f^f",ð%Ÿ,μ,Ü,·□B

,±,İf_CfAf□fO,Å□ADesktop Manager ,ÅŞÇ—□,·,é□V,µ,¢fAfvfŞfP□[fVf‡f“,đ'İđ,Å,«,Ü,·□B

,±,ê,íffXfNfgfbfv,ĤŒ»□ÝŽĀ□s,³ê,Ä,¢,éAfvfŠfP□[fVf‡f“ fvf□fOf%of€,ìfŠfXfg,Ā,·□B,±
,ê,íffXfNfgfbfv,ĤŒ»□ÝŽĀ□s,³ê,Ä,¢,éAfvfŠfP□[fVf‡f“ fvf□fOf%of€,ìfŠfXfg,Ā,·□B,±
,ìfŠfXfg,©,çfAfvfŠfP□[fVf‡f“,ð'ì'ð,·,é,©□A[ŽQ□Æ] f{f^f“,ð‰Ÿ,μ,ĤŒ»□ÝŽĀ□s,³ê,Ä,¢
,È,¢•È,ìfAfvfŠfP□[fVf‡f“,ðŽw'è,μ,Û,·□B

,±,ìf{f^f",ðfNfŠfbfN,μ,Äftf@fCf< f_fCfAf□fO,ðŠJ,,Æ Desktop Manager ,ÅŠÇ—□,·,é"C^Ó,ì Windows
fAfvfŠfP□[fVf‡f",ð'ìð,Å,«,Ü,·□B

'I'δ,μ,½fvf□fOf%of€ ftf@fCf<,δ□ADesktop Manager ,É,æ,Á,ÄŠÇ—
□,³,ê,é□V,μ,¢fAvfŠfP□[fVf‡f",Æ,μ,Ä□³"F,·,é□ê□‡,Í□A,±,ìf{f^f",ðfNfŠfbfN,μ,Ü,·□B

,±,±,ÅfAfvfŠfP□[fVf‡f“ fvf□fOf%f€,ð'!ð,μ,È,¢□ê□‡,Í□A,±,ìf{f^f“,ð%Ÿ,μ,Ü,·□B[□V,μ,¢fAfvfŠfP□[fVf‡f“] f_fCfAf□fO
f{fbfNfX,Í□A□Ÿ'è,ð•ï□X,¹,,É•Â,¶,Ü,·□B

,±,ìf_fCfAf□fO,Å,í□A□V,μ,¢fAfvfŠfP□[fVf‡f“ fffXfNfgfbfv,ì-¼‘O,đ“ü—í,Å,«,Ü,·□B

□V,μ,ϕfAfvfŠfP□[fVf‡f“ fffXfNfgfbfv,ì–¼'O,đ“ü—Í,μ,Ä,,¾,¾,ϕ□B•Ê,ìfAfvfŠfP□[fVf‡f“—p,ÉŽw'è,μ,½ffXfNfgfbfv–
¼,©,ç'l'đ,·,é,±,Æ,à,Ä,«,Ü,·□B
,½,Æ,,î□AWeb fuf%ofEfU—p,É,Í□uWeb□v□AE f□□[f< fvf□fOf%of€—p,É,Í □uMail□v,È,Ç,ì–
¼'O,đffXfNfgfbfv,ÉŽw'è,μ,Ü,·□BDesktop Manager ,ì□ufzfbfg fL□[□v<@“\,đŽg—p,μ,Ä□A,±,ê,ç,ì,¾,´,Ü,ÈfAfvfŠfP□[fVf‡f“
ffXfNfgfbfv,đfXf€□[fY,É□Ø,è'Ö,!,é,±,Æ,ª,Ä,«,Ü,·□B

[OK] f{f^f",đfNfŠfbfN,μ,Ä□AfffXfNfgfbfv,ł□V,μ,¢—¼'O,đŠm'è,μ,Ü,·□B—LŒø,È—¼'O,đ"ü—Í,μ,È,¢,Æ [OK]
f{f^f",ÍfNfŠfbfN,Å,«,Ü,¹,ñ□B

,±,±,ÅffXfNfgfbfv-¼,ð"ü—Í,μ,È,¢□ê□‡,Í□A[fLff" fZf◁] f{f^f",ðfNfŠfbfN,μ,Ü,·□B

,±,}fL□[,`g,Ý□‡,í,¹,δ%Ÿ,.,Æ□Af})fEfX fJ□[f\ƴ,}Ê`u,É'•ûƐ`,ªfAfj)f□□[fVf‡f“Ɛ`Ž®,ÂŽû`©,μ,Ä,¢,,ì,Â□AfJ□[f\ƴ,δƐ©,Â,¯,â,·,-
,È,è,Ü,·□B

,±,ìf|fvfVf‡f“,ð—LÆø,É,.é,Æ□AfEfBf“fhfE,ðf}fEfX,Åfhf%bfO,μ,Ä~Ú“®,.,é,Æ,«,É□AfEfBf“fhfE,ð“C^Ó,ì%æ—
Ê,â•Ê,ì%æ—Ê,ì[,ÉŠ@‘S,É□‡,í,¹,ç,ê,Ü,.□B

,±,ê,ç,lfvfVf‡f",íA^fXfNfo[âf^fXfNØ,èÖ,;fEfBf“fhfE,ì“®i,È,ÇAWindows fNf%fcfAf“fg
fZfbfVf‡f“,lf†[fU[fCf“f^ftfF[fX—vf,ð•iX,.,é,à,ì,Â,.B

,±,lfvfVf‡f",đ'đ,·,é,Æ□A'ă'Ö,lf^XfN□Ø,è'Ö,lfEfBf"fhfE,ª—LÆø,É,È,è,Ü,·□B,±,lfEfBf"fhfE,Í nView ,lÆ»□Ý,ì□Ý'è,É□]
,Á,Ä%æ—Ê,ì'†%»,É•Ž!,³ê□A^Ù,È,éffXfNfgfbfv□ã,lfAvfŠfP□[fVf‡f",ì□Ø,è'Ö,δ%Â",É,μ,Ü,·□B
f^XfN□Ø,è'Ö,lfEfBf"fhfE,Í Alt+Tab fL□[,δ%Ÿ,·,Æ—LÆø,É,È,è,Ü,·□B

,±,łfłfvfVf‡f“,đ'đ,·é,Æ□Af^fXfN□Ø,è'Ö,„fEfBf“fhfE,í□í,ÉŽwè,³ê,½f,fjff^□ã,É•Ž!,³ê,Ü,·□B

f[^]*XfN*∅,è'Ö,|*fEfBf*"*fhfE*,đ•Ž!,·,é*f*,*fj**f*[^],đ'*đ*,μ,Ü,·∅*B*'*đ*,Â,«,é*f*,*fj**f*[^],[Ĉ»∅Ý*fAfNfefBfu*,È*f*,*fj**f*[^],],Ý,Â,·∅*B*

,±,̀f|fvfVf‡f",ð'ð,·é,Æ□Af^fXfNfo□[,ð 1 ,Â,̀f,fjff^,ÉŒÂ`è,Â,«,Ü,·□B,Â,Ü,è□Af^fXfNfo□[·a·i□",̀f,fjff^,É,Ü,½,a,Á,Ä·Ź|,³,é,È,¢
,æ,σ,É,μ,·□B

,±,ê,ç,łfłvfVf‡f“,É,æ,è□ADesktop Manager ,ªf□fbfZ□[fW f{fbfNfX f_CfAf□fO,âfAfvfŠfP□[fVf‡f“
f_CfAf□fO,ðŠÜ,Ɔf|fbfvfAfbfv fEfBf“fhfE,łÊu,â“z'u,ðŠÇ—□,·,é•û-@,ªƐ^,Ü,è,Ü,·□B

,±,l̂f|fvfVf‡f",đ'đ,·,é,Æ□AfY□[f€<@",ᵃ—LŒø,É,È,è,Ü,·□BfY□[f€<@",Í□Af})fEfX fJ□[f\fc,ᵃu,©,ê,½%œ—Ê—
îæ,îŠg'â•Ž!,đ^ê•û,lf, fjf^,É•Ž!,μ,Ü,·□BŠg'â•Ž!,Í□Af})fEfX fJ□[f\fc,ᵃu,©,ê,Ä,¢,éf, fjf^,Æ,Í•Ê,lf, fjf^,É•Ž!,³,ê,Ü,·□Bf})fEfX
fJ□[f\fc,đ•Ê,lf, fjf^,É"®,©,·,Æ□AfY□[f€•Ž!,àŽ©"®"l,É'¼,lf, fjf^,É□Ø,èÖ,í,è,Ü,·□B
fY□[f€<@",Í□A•i□",lf, fjf^,ᵃ□Ú'±,³,ê□A□...•½,Ü,½,Í□,'¼fXfpf“ f,□[fh,ᵃ'l'đ,³,ê,Ä,¢,é,Æ,«,̀,Ý<@",μ,Ü,·□B

,±,̣f|fVfVf‡f",δ—LÆø,É,.,é,Æ□AftfBf<f^,É,©,¯,ç,ê,½ ("†ŠÔ'l,δ")“ü,μ,½) "{—|,ÂŠg'â,³,ê,Ü,·□B

ˆÈ%°,lfzfbfgfL□,í□AfY□[f€<@^,ì□SƐÄ,ÉŽg—p,μ,Ü,·□B[lfzfbfg fL□□ f^fu,lfzfbfg fL□[,Æ“—
l,É□AftfB□[f<fh,ðfNfŠfbfN,μ,Ä,©,çŠó–],·,éfL□[,ì'g,Ý□‡,í,¹,ð%Ÿ,μ,Äfzfbfg fL□[δ□Ý'è,μ,Ü,·□B

f□f,:[fY□[f€],Ü,½,í[lfzfbfg fL□□ fy□[fW,ªŠJ,¢,Ä,¢,éŠÔ,í□Afzfbfg fL□[,Í→Ɛø,É,È,è,Ü,·□B,±,ê,ÍŠù*¶,lfzfbfg
fL□[ª□V,μ,¢fzfbfg fL□[,ì'è<˘,ð–W,°,È,¢,æ,ª,É,·,é,½,ß,Å,·□B

,±\fzfbfgfL□[,í□AfY□[f€<@™\)flf",Æflft,δ□Ø,è'Ö,ü,·□B

,±,łfzfbfgfL□[,í□AfY□[f€•łŽ!,}“{—!,ðå,«,„μ,Ü,·□B

,±,łfzfbfgfL□[,í□AfY□[f€•łŽ!,ł"(-!,đ□¬,³,,μ,Ü,·□B

,±,ìƒpƒ%ƒƒƒƒ[ƒ^,í□Aƒ}ƒEƒX,ª“@,¢,Ä,¢,È,¢,Æ,«„ÉƒY□[ƒ€•Ž!,ð 1 •bŠÔ,É%½%ñ□X□V,·,é,©,ðŽw`è,μ,Ü,·□B(ƒ}ƒEƒX,ª“@,¢,Ä,¢
,é,Æ,«„íƒY□[ƒ€•Ž!,íŽ©“@“!„É□X□V,³,è,Ü,·□B) ,±,ì□”Žš,ð`ä,«„,·,é,Æ□AƒVƒXƒef€„âƒAƒvƒŠƒP□[ƒVƒ‡ƒ“,ì□«“„É%e<¿„ð—
^!,é□ê□‡,ª, ,è,Ü,·,ì,À’□^Ó,μ,Ä,,¾,¾,³,¢□B

,±,lfpf%ff[[f^,íAfy[[f€•Ž!,đ 1 ,Â,lf,fjff^,©,ç•Ê,lf,fjff^,É□Ø,è'Ö,!,é□Ů,!'x%„ŽžŠÔ,đf~fŠ•b'P`Ê,Âžw`è,·,é,à,!,Â,·□B,±,!'x%„ŽžŠÔ,íAfy[[f€•Ž!,^a, ,éf,fjff^□ă,Éf}fEfX,^aŽžŠÔ'u,©,ê,½□ê□‡,ÉAfy[[f€•Ž!,^af,fjff^ŠÔ,đ□u"ò,Ń%ň,é□v,!,đ–h,®,½,ß,!,à,!,Â,·□B,±,lfpf%ff[[f^,đf[f□,É□Ý'è,μ,Ă□A'x%„ŽžŠÔ,đ,È,,·,±,Æ,ă,Â,«„Ü,·□B

,±,l)fVfVf‡f",đ'đ,·,é,Æ□ACtrl□AAIt□AShift ,l,¢,,ê,©,l)fL□[,l'g,Ý□‡,í,¹,đ%Ÿ,μ,È,^a,çf})fEfX fz fC□[f<,đ%ñ,·,±
,Æ,Ā□AfY□[f€•Ž!,l}"{—l,đ'¹/₄□Ú•ĩ□X,Ā,«,,Ü,·□B

f}fEfX fz fC[f<,đŽg,Á,½fY[f€•Ž!,l}"{—!•iX,đ—LŒø,É,·,é CtrlAAAltAShift ,l fL[,l'g,Ý±,í,¹,đ'¹đ,μ,Ü,·B

[fzfzbfzfL[] fy[][fW,Ä,í[]AfffXfNfgfbfv,Ö,ìfAfvfŠfP[][fVf†f“ fEfBf“fhfE,ì”z’u,ðŠÇ—[],.,é,½,ß,ì[]ufzfzbfzfL[][],l’g,Ý[]‡,í,¹,ðfJfXf^f}fCfY,Ä,«,Ü,.[]B

f[]f,,: [fY[][f€] ,Ü,½,í [fzfzbfzfL[][] fy[][fW,ªŠJ,¢,Ä,¢,éŠÔ,í[]AfzfzbfzfL[][,Í→Æø,É,È,è,Ü,.[]B,±,ê,ÍŠù“¶,ìfzfzbfzfL[][,ª[]V,µ,¢fzfzbfzfL[][,l’è<`,ð–W,°,È,¢,æ,ª,É,.,é,½,ß,Å,.[]B

3D fAfvfŠfP□[fVf‡f“,ÅfAf“f`fGfCfŠfAfX,^{a-3}Œø,É,È,è,Ü,·□B

fAfvfŠfP□[fVf‡f“,Å□Å□,,lfpftfH□[f}f“fX,^a•K—v,È□ê□‡,Í□A,±,lflfvfVf‡f“,đ'l'đ,μ,Ä,,¾,³¢□B

fAf“f`fGfCfŠfAfX,^a 2x f,□[fh,Å—LŒø,É,È,è,Ü,·□B

3D fAfvfŠfP□[fVf‡f“,ìfCf□□[fW•iŽ¿,ÆfpftfH□[f}f“fX,^aŒü□ă,μ,Ü,·□B

,±,ìlfVfVf‡f“,ð'l'ð,·,é,Æ□AGeForce3 GPU ftf@f~fŠ□[,ĂŽg—p%oÂ“\,È“Á←Žæ“¾□İ,YfAf“f`fGfCfŠfAfX<Z□p,ª—
LŒø,É,È,è,Û,·□B

Quincunx fAf“f`fGfCfŠfAfX,ðŽg—p,·,é,Æ□A□^—□,ª¬,¢ 2 "{AA f,□[fh,É•C“G,·,éfpftfH□[f}f“fX,Ă□A□^—□,ì'x,¢ 4 "{AA
f,□[fh,ì•iŽ¿,ðŽACE»,Ă,«,Û,·□B

fAf“f`fGfCfŠfAfX,ª 4x f,□[fh,Å—LÆø,É,È,è,Ü,·□B

3D fAfvfŠfP□[fVf‡f“,lfpfth□[f}f“fX,Í¼□'á%º,μ,Ü,·,ªA□Å□,,lfCf□□[fW•iŽč,ďŽÀÆ»,Å,«,Ü,·□B

,±,ìfIfvfvf‡f“,ð'ì'ð,·,é,Æ□A4 "{□A9 f^fbfv (Gaussian) f,□[fh,ðŽg—p,μ,½fAf“f`fGfCfŠfAfX,a%â“\,É,Ê,è,Ü,·□B
3D fAfvfŠfP□[fVf‡f“,ìfpftfH□[f}f“fX,ì'½□'á%°,μ,Ü,·,ª□A□Å□,,ìfCf□□[fW•iŽč,ðŽÀŒ»,Å,«,Ü,·□B

,±,ìlfvfVf‡f“,ð'!ð,·,é,Æ□A6 "{f,□[fh,ðŽg—p,μ,½fAf“f`fGfCfŠfAfX,ª%Â“,É,È,è,Ü,·□B

3D fAfvfŠfP□[fVf‡f“,ìpftfH□[f}f“fX,ì'½□'á%°,μ,Ü,·,ª□A4 "{f,□[fh,æ,è□,,¢fCf□□[fW•iŽ¿,ðŽÀŒ»,Å,«,Ü,·□B

f□f,: ,±,ì□Ý'è,Í Direct3D fAfvfŠfP□[fVf‡f“,É,ì,Ý“K—p,³,è,Ü,·□BOpenGL fAfvfŠfP□[fVf‡f“,ðŽÀ□s,μ,½□ê□#□AOpenGL

,íŽŸ,ÉŽg—p,Å,«,éfAf“f`fGfCfŠfAfX□Ý'è (6 "{□Ý'è,ìŽŸ,ÉŒŸ□o,³,è,½lfvfVf‡f“□Ý'è) ,ðŽg—p,μ,Ü,·□B

,±,l)fIvfVf‡f“,đ'!đ,·é,Æ□AfAf“f`fGfCfŠfAfX,đfTf|□[fg,·é 3D
fAfvfŠfP□[fVf‡f“,É□Å“K,ÈfAf“f`fGfCfŠfAfX□Ý`è,ªŽ©“®“l,É—LŒø,É,È,è,Ü,·□B

,±,İfIvfVf‡f“,É,æ,è□A3D fAfvfŠfP□[fVf‡f“,İŽÀ□sŽž,ÉŽg—p,.,éAf“f`fGfCfŠfAfX f,□[fh,đŽè“@,Å'!đ,Å,«,«,Ü,·,□B

fRf“fsf...□[f^,)CE»□Ý,) AGP □Ý'è,ÉŠÖ,.,é□î•ñ,Â,·□B

,±,lflvfVf‡f",Ā□AfOf%ftfBfbfNfX fTfufVfXfef€,ĀŽg—p,·,é AGP fŒ□[fg,đŽè"®,Ā'!đ,Ā,«,Ü,·□B,Ç,) AGP fŒ□[fg,đŽg—
p,·,é,x,«,©•ª,©,ç,È,¢□ê□‡,í□A,±,l)f`fFfbfNf{fbfNfX,í)f`fFfbfN,μ,È,¢,Ā,,¾,¾,¢□BfVfXfef€,É,æ,è□A□Ā"K,È AGP
fŒ□[fg,ªŽ©"®"l,ÉŒ^è,¾,ê,Ü,·□B

fXf%*fCf_ fRf*"fgf□□[f<,đ"Ú"@,.,é,Æ□AfOf%*ftfBfbfNfX* fTfuVfXfe*f€*,ÅŽg—p,.,é AGP fÆ□[fg,đŽè"@,Å'!đ,Å,«,Ü,·□B

f h f % o f C f o , a f V f X f e f € f □ f , f Š , © , ç Š , , è “ – , Ä , ç , ê , ½ f r f f f l f □ f , f Š , đ Š Ç — □ , . , é • ů – @ , đ ' l ' đ , Å , « , Ü , . □ B

Œ»□Ý,łftfŒ□[f€ fofbftf@ f,□[fh,ĀŽw'è,³,ê,½•û-@,Æ□‡,í,¹,ĀŽg—p,³,ê,é fVfXfef€ f□f,fŠ,ł—e—Ê,đŽw'è,Ā,«,Ü,·□B

,±,łf|vfVf‡f“,đ'đ,·,é,Æ□A["@“ł] ftfĚ□[f€ fofbftf@ f,□[fh,đŽg—p,μ,½,Æ,«,łftfĚ□[f€ fofbftf@ f□f,fŠ,łŠÇ—□•û—
@,đŽwè,Ā,«,Ü,·□B

NVIDIA PowerMizer ,đŽg—p,·,é,Æ□A,“Žg,¢,} GPU ,l“d—(□Á”i,đ’²□@,Â,«,Ü,·.□B[□Â’âpf□□[fZ□[fu]
□Ý’è,đ’l’đ,μ,ÄfofbfefŠ□[đ□ß—ñ,·,é,©□A[□Â’âpfpfH□[f}f“fX] ,đ’l’đ,μ,Ä,“Žg,¢,} GPU ,Â□Â’â,lfof%oftfbfbfNfX fpfH□[f}
f“fX,đ”¾,é,©□A,Ç,¿,ç,©,đ,”l,Ñ,,¾,¾,¢□B

,±,l)fIvfVf‡f“,ð'!ð,·,é,Æ□A•i□“,l□o—í,ðŽ□,ÂffBfXfvfƎfC fAf_fvf^,ª□A2 ,Â,ì“Æ—S,μ,½ffBfXfvfƎfC fAf_fvf^,Æ,μ,Ä
Windows %æ—Ê,É•Ž,³,ê,Ü,·□B•i□“,l□o—í,ðŽ□,ÂfAf_fvf^,É□Ú±,³,ê,½ffBfXfvfƎfC
ffofCfX,²,Æ,É□A`Ù,È,é%ð'œ"x,â□F□“,ð'!ð,Â,«,é,æ,ª,É,È,è,Ü,·□B

2 'ä,ìffBfXfvfCfC,ð 1 ,Ä,ì GPU/f□f, fŠ,Ä•Š,,μ,Ä□Y'è, ,é,Æ□A•Ž!□Y'è,ì'ê•",ªŽg—p,Ä,«,È,,é□ê□‡,ª, ,è,Ü,·□BWindows ,ì [%œ—
Ê,ìfvf□fpfefB] f_fCfAf□fO f{fbfNfX,Ä•Ž!,³ê,éf,□[fh,í□AfVf" fOf< ftfBfXfvfCfC□□¬,ìffBfXfvfCfC fAf_fvf^,Ä□—
□, ,é,±,Æ,ð'Ō'ñ,Æ,μ,Ä,¢,Ü,·□BfAf_fvf^,ìŠf\□[fX,ð 2 'ä,ìffBfXfvfCfC,Ä«—L,μ,Ä,¢,é□ê□‡,í□A,¢
,,è,©,ìffBfXfvfCfC,Ä□,%%ð'œ"x f,□[fh,ì'ê•",ªŽg—p,Ä,«,È,,È,è,Ü,·□B,±,ì□ê□‡,í□AfffBfXfvfCfC fAf_fvf^,Ä□³□í,É□—
□,Ä,«,éffBfXfvfCfC f,□[fh,ì'g,Y□‡,í,¹,ð,¢,è,¢,èŽŽ,μ,Ä□A,»,ìf,□[fh,ð'ì'ð,μ,Ä,,¾,³,¢□B

±,lf{f^f",δfNfŠfbfN,·é,Æ□AOpenGL,lfXfefƎfl,;æ,Ñfl□[fo□[fƎfC,l□Ú□×□Ý'è,δfJfXf^f}fCfY,Å,«,Ü,·□B,±
.lf{f^f",l□Afpflf<,l□Å□%,lfŠfXfg f{fbfNfX,Å [4 "{fofbftf@ fXfefƎfl API] flfvfVf‡f",ð—LƎø,É,μ,Ä,¢,é□ê□‡,l,ÝŽg—
p,Å,«,Ü,·□B

OpenGL ,ÄfI□[fo□[fŒfC,ð—LŒø,É,μ,Ü,·□B`ê•”,ìfAfvfŠfP□[fVf‡f“ (Softimage3D ,È,Ç) ,í□Afi□[fo□[fŒfC–Ê,ð•K—
v,Æ,μ,Ü,·□Bfi□[fo□[fŒfC–Ê,í□A•W□€fJf%□[(RGB) fofbftf@.É`Ç%Á,·,éfpfŒfbfg–Ê,Æ,μ,ÄŽg—
p,³,ê,Ü,·□Bfi□[fo□[fŒfC,í□A3D fCf□□[fWŽ©`ì,Æ,í–³SÖŒW,É□d,È,è□‡,Á,Ä•Ž!,³,ê,é—ì`æ□A,^½,Æ,ì,îf□fjf...
□[.âfJ□[f\fc,È,Ç,ð•Ž!,·,é□ê□‡,É“Á,É•Ö—“,Ä,·□Bfi□[fo□[fŒfC,í□A16 frfbfg,“,æ,Ñ 32 frfbfg fJf%□[f,□[fh,ÄfTf|
□[fg,³,ê,Ü,·□B

f□f,: OpenGL ,ìfXfefŒfi,Æfi□[fo□[fŒfC,í□A“~Žž.ÉŽg—p,Ä,«„Ü,¹,ñ□Bfi□[fo□[fŒfC,ðŽg—p,·,é,É,í□Afi“f{□[fh
fOf%ftfBfbfNfx f□f,fŠ,ð‘□□Y,·,é•K—v,^a, ,è,Ü,·□B,Ü,^½□A%ð‘œ“x,É,æ,Ä,Ä,íŽg—p,Ä,«„È,¢□ê□‡,^a, ,è,Ü,·□Bfi□[fo□[fŒfC<@“\
,ðŽg—p,Ä,«„È,¢□ê□‡,í□A%ð‘œ“x,â□F□“,ð%⁰,°, ,Ä,^¾,³,¢□B

OpenGL,ÄfXfefŒfl,ð—LŒø,É,μ,Ü,·□BfVfffbf^[fOf%oX,â.»),¹¼,}fn□[fhfEfFfA,ðŽg,Á,ÄfXfefŒfl
fAfvfŠfP□[fVf±f“,ðŽÀ□s,.,é,½,B,É□ANVIDIA fhf%oCfo,í□AOpenGL fXfefŒfl fsfNfZf< ftfH□[f}fbfg,ðfGfNfXf|
□[fg,μ,Äf□f,fŠ,ð□SŒä,μ□AfxfefŒflŽ<“_“,æ,N’P`êŽ<“_fAfvfŠfP□[fVf±f“,ð“ŽŽ,ÉŽg—p,Ä,«é,æ,ª,É,μ,Ü,·□B

f□f,; ,±,}fIfvVf±f“,í•K—v,É□ê□±,}Ý—LŒø,É,μ,Ä,¾,³,¢`ê•“,}fAfvfŠfP□[fVf±f“,}fXfefŒfl ftfH□[f}
fbfg,ðŽ©“®“l,É‘l’ð,μ,Ü,.,ª□AfxfvfŠfP□[fVf±f“,l’t,É,}fXfefŒfl fsfNfZf< ftfH□[f}fbfg,Ä□³í,É“®□ì,μ,É,¢,à,ì,à, ,è,Ü,·□B

f□f,; OpenGL,}fXfefŒfl,ÆfI□[fo□[fŒfC,í□A“ŽŽ,ÉŽg—p,Ä,«Ü,¹,ñ□BfxfefŒfl•Žl,ðŽg—p,.,é,É,í□Aflf“f□[fh
fOf%oftfBfbfNfX f□f,fŠ,ð’□□Y,.,é•K—v,ª, ,è,Ü,·□B,Ü,½□A%øð’œ“x,É,æ,Ä,Ä,ÍŽg—
p,Ä,«É,¢□ê□±,ª, ,è,Ü,·□BfxfefŒfl,Ä•Žl,Ä,«É,¢□ê□±,í□A%øð’œ“x,â□F□“,ð%ø°,° ,Ä,¾,³,¢□B

NVIDIA fhf%fCfo,íA,³Ü,´Ü,ÈfXfefŒfi fn[fhfEfFfA,ðfTf| [fg,µ,Ä,¢,Ü,·B□%Šú□Ý`è,ìfXfefŒfi fn[fhfEfFfA`ÈŠO,ðŽg
—p,·,é□ê□‡,l□AfŠfXfg f{fbfNfX,©,çffBfXfvfŒfC f,□[fh,ð'i'ð,µ,Ä,,¾,³,¢□B

±,l̄fI fvfVf‡f“,í□AELSA 3D REVELATOR™ ,Ü,½,íŒÝŠ·fAf_fvf^,đŽg—p,·,é□ê□‡,l̄,Ý'I'đ,μ,Ü,·□B,±
.ê,ç,l̄fAf_fvf^,í□Af,fj f^□M□†,đ,Ü,Æ,ñ,ç,l̄fXfe fŒfI fn□[fh fEfFfA,ĂŽg—p,³ê,Ă,ç,é•W□€"l,Ê 3 fsf“ DIN ,É•İŠ·,μ,Ü,·□B
f□f,: fOf%oftfBfbfNfX fJ□[fh,É"à' 3 fsf“ DIN fRflfNf^,ª ,é□ê□‡,í□AfAf_fvf^,đŽg—p,·,é•K—v,Í, ,è,Ü,¹ñ□B

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