

ftfHfO fe[]lfuf< fGf~f...fCE[]fVf#f",đ—LCEø,É,μ,Ü,·[]B Direct3D ,Å,Í[]ADirect3D fn[]fh
fAfNfZf%°fCE[]fVf#f",°%°°Å"\,È NVIDIA GPU ,²[]Afo[]fjfbfNfX ftfHfO,Ü,½,Ífe[]lfuf<
ftfHfO,đŽÀ[]s,Å,«,é,±,Æ,đ[]đCE[],Æ,μ,Ä,ç,Ü,·[]B

f[]f,[]FfQ[]f€,É,æ,Á,Ä,Í[]ADirect3D fn[]fh,ì<@"\,đ³Šm,ÉŠm"F,·,é,±,Æ,È,[]Afe[]lfuf< ftfHfO
ftf[][]fg,đ—v<[],·,é[]ê[]‡,ª, ,è,Ü,·[]B ,±,Íf[]fVfVf#f",đ—LCEø,É,·,é,Æ[]AŠmŽÀ,É,±,ê,ç,ÍfQ[]f€,đ
NVIDIA GPU ,Å³[]í,ÉŽÀ[]s,Å,«,Ü,·[]B

fn[]fh,[]Az fofbftf@,ì[][,³,ðfAfvfš—v<[],ì[][,³,Éž©“®<[]\$’²[]®,μ,Ü,·[]B
f[]f, : []â’í,É“Á’è,ì[][,³,â•K—v,Å,È,ç[]ÈÀ,è[]A,±,ìf[]f[]v[]f[]f[]f[]”,ð—L[]Eø,ì,Ü,Ü,É,μ,Ä,“,«,Ü,·[]B ,±
,ìf[]f[]v[]f[]f[]f[]”,ð-³[]Eø,É,·,é,Æ[]A[]f[]f[]f[]f[]f[]f[]”,fg,Èfn[][]fh[]Y’è,É^è’v,·,é—L[]Eø,È z
fofbftf@,ì[][,³,ðž[],ÅfAfvfš,μ,©žÅ[]s,Ä,«,Ü,¹,ñ[]B

[['wfofbftf@, ì' ä' ÖfefNfjfbfN, ð—LCEø, É, µ, Ü, ·]B

, ±, ìfìfvVf†f", ð—LCEø, É, ·, é, Æ[Afn[fh, í 16 frfbfg fAfvfŠ, Å•Ê, ì[['wfofbftf@ f[]fjYf€, ðŽg—
p, ·, é, æ, x, É, Ê, è[A, ·iŽž, ì 3D fCf[][]fW fÆf" f_Šf" fO, a%oÂ"\, É, Ê, è, Ü, ·]B

Direct3D ,Å NVIDIA ,lf[]fS,ð—LCEø,É,μ,Ü,·[]B

,±,lf[]fVf[]fj“,ð—LCEø,É,·,é,Æ[]ADirect3D fAfvfš,ìžÀ[]sžž,É[]A%øæ-Ê%øø<÷,É NVIDIA ,lf[]fS,a•\
Ž!,³,ê,Ü,·[]B

NVIDIA GPU ,íA Mip f}fbfv,đŽ©“@“l,Éññ- ,μ,ÄAfofX'S'ì,lfefLfxf`ff“]’—Eø—
l,đñ,,ßAfvfš,lfpftfH[f}f“fX,đEüã,μ,Ü,·B

fñf,ñF,½,¾,μAZ©“@ññ- ,³,ê,½ Mip f}fbfv,đ—LCEø,É,·,é,ÆA³,μ,•\
Žl,³,ê,É,çfvfš,à, ,è,Ü,·B -â'è,đC³,·,é,É,íAcfññ[fW,³,μ,•\
Žl,³,ê,é,Ü,ÅAZ©“@ññ- ,³,ê,é Mip f}fbfv fCfxf<,lñ”,đE, ,ç,μ,Ä,,¾,¾,çB Mip f}fbfv
fCfxf<,đ%º,º,é,ÆAfeNfxf`ff,ì•s'μ,ç,É^É'uñ,í,¹,Ü,½,íufV[f€ñv,³,Ü,Æ,ñ,Ç
%ºđA,³,ê,Ü,·,³AfpftfH[f}f“fX,í'á%º,μ,Ü,·B

Mip f}fbfv,ìÚ×“x (LOD) fofCfAfX,đ'²®μ,Û,·B

fofCfAfX,đ'á,Ý'è,·,é,Æ%œŽì,ªEüã,μA,·,Ý'è,·,é,ÆfAfvfŠ,ìpftfH[f}f“fX,ªEüã,μ,Û,·B
[Å,,ì%œŽì] ,©,ç [Å,,ìpftfH[f}f“fX] ,Û,ÅAÝ'èì,Ý,ì 5
,Ä,ìfofCfAfX'l,©,ç'l'đ,Å,«,Û,·B

•Û'¶,μ,½ffXf^f€□Ý'è (ç•t%Á□Ý'è£) fŠfXfg,ð•\Ž!,μ,Û,·□B
□Ý'è,ðfAfNfefBfu,É,·,é,É,Í□AfŠfXfg,ÅfAfCfef€,ð'l'ð,μ,Ä ["K-p,·,é] ,ðfNfŠfbfN,μ,Ä,,¾,¾,ç□B

fjfCF"fg,Èÿ'è ([Direct3D ,ìú×] f_fCfAfO f{fbfNfX,ìÿ'è,È,Ç) ,ðffXf^f€ ,ì•t
%Áÿ'è,Æ,μ,Ä•Ú'¶,Å,« ,Ü,·B •Ú'¶,³,ê,½ÿ'è,ª—x,ìfŠfXfg,É'Ç%Á,³,ê,Ü,·B

"Á'è,ì Direct3D fQ[f€,ÅÅ"Kÿ'è,ªCE©,Â,©,Á,½ê#A,» ,ê,ðffXf^f€•t
%Áÿ'è,Æ,μ,Ä•Ú'¶,·,é,ÆAfQ[f€,ðŠŽn,·,é'O,É,·,í,â, Direct3D
,ªÿ'è,Å,«AŠeflfvfVf#f",ìCEÂ•Êÿ'è,ªE,·,Ü,·B

fŠfXfg,ÅŒ»□Ý'í'ð,³,ê,Ä,ç,éjffXf^f€□Ý'è,ðí□œ,Å,«,Ü,·□B

,: ,x,Ä,ì¸Ý'è,Šù'è'l,É-ß,è,Ü,·¸B

'Ç%Á,ì Direct3D òÝ'è,ðjfx^f}fCfY,·,é,½,ß,ìf_CfAfòfO f{fbfNfX,ª•\Ž!,³,è,Ü,·òB

fXf%ofCf_[][,đ“ ®,©,.,Æ[]AfefNfZf<—p,lfh[]fh fefNfXf`ff,ì”z’u[]Ý’è,đ•ï[]X,Å,«,Ü,·[]B
,±,ê,ç,ì’l,đ•ï[]X,.,é,±,Æ,Å[]ACE³,lfefNfZf<,á’è<`³,ê,½[]ê[]Š,ª•l,í,è,Ü,·[]B **Šù’è’l**,í[]ADirect3D ,lžd
—l,É[]],Á,Ä,č,Ü,·[]B f\ftfgfEjFfA,ì’t,É,í[]ACE³,lfefNfZf<,đ,č,,ê,©,ì[]ê[]Š,É’è<`.,é,±,Æ,đ—
v<[],.,é,à,ì,à, ,è,Ü,·[]B ,±,ê,ç,lfAfvfŠ,Å,í[]ACE³,lfefNfZf<,đ[]Ä’è<`.,é,±,Æ,Å
%œŽ;ªCEü[]ã,μ,Ü,·[]B
'²[]®,.Ä,Ü,Ý,đŽg,Á,Ä[]ACE³,lfefNfZf<,ì[]ê[]Š,đfefNfZf<,ì[]¶[]ã<÷,©,ç’t[]S,ìŠÔ,Å'²[]®,μ,Ä,,³/₄,³,č[]B

NVIDIA GPU ,³efNfXf`ff,đ<L%~ ,.é,½,ßA (fOf%oftfBfbfNfX fj[fh“<Ú,lf,fš,É%Á,ı,Ä)
Žw'è,³,é,½—e—Ê,Ü,ÅVfXfe€ ff,fš,đ—~—p,.,é,æ,ı,ÉY'è,Å,«,Ü,·B

ff,**F**efNfXf`ff<L%~—p,lfVfXfe€ ff,fš,ìÅ'â—e—Ê,íAfrf“fsf...[f^,É“<Ú,³,é,½•— RAM
,l—e—Ê,É,æ,èZZo,³,é,Ü,·B fvXfe€ RAM ,²½,ç,Ù,ÇA,,ç'l,đY'è,Å,«,Ü,·B

,±,ìY'è,íA_{PCI} fOf%oftfBfbfNfX fj[fh (,.,é,ç,í PCI ĆYš·f,[fh,ÅŽÀs't,ì AGP fffBfXfvfĀfC
fAf_fvf^),³/₄,~ ,É“K—p,³,é,Ü,·B

Direct3D ,Å, '¼"~Šú,ª,Ç,π^—,³,ê,é,©Žw'è,μ,Û,·B

- í,Éfjft - Direct3D fAfvfŠ,Å, '¼"~Šú,ðí,É-³CEø,É,μ,Û,·B
- Šù'èY'è,Å,Ífjft - fAfvfŠ, ©,ç-¾Šm,É—v<,³,ê,È,çCEÀ,èA, '¼"~Šú,ð-³CEø,É,μ,Ä,¨,«,Û,·B
- Šù'èY'è,Å,Ífjft" - fAfvfŠ, ©,ç-¾Šm,É—v<,³,ê,È,çCEÀ,èA, '¼"~Šú,ð—LCEø,É,μ,Ä,¨,«,Û,·B

□, '¼" ~ Šú, a-³CEø, É, È, Á, Ä, ç, éêê±AftfCE□[f€ ,afOf%oftfBfbfNfX fvf□fZfbfT, É, æ, è^—□, ³, ê, é'O, É
CPU , a□€" ò, , éftfCE□[f€□" , ð□\$CEÀ, μ, Ü, ·□B

f□f, □FfCEf" f_ 'O, ì<—eftfCE□[f€□" , a' ½, ç
, Ü, Ç□AfWf±fCfXfefBfbfN□AfQ□[f€fpfbfh□AfL□[f{□[fh, È, Ç, ìfffofCfX, É'í, , é□u" ü—Íf%ofO□v, a' á, «, -
, È, é, ±, Æ, a, , è, Ü, ·□B fQ□[f€ , ìvfCEfC't, ÉfRf" fsf...□[f^, É□Ú' ±, ³, ê, ½" ü—ÍfffofCfX, Ö, ì%ž" š, Å'x%
, , a" □¶, , éêê±, í□A, ±, ì', ð□, È, , μ, Ä, , ¾, ³, ç□B

“Á’è,ì CPU ,ÅŽg—p,³,è,é<%»fCf“fXfgf%ofNfVf#f“,ìfhf%ofCfo fTf|[]fg,ð-³Æø,É,μ,Û,·B
^ê•”,ì CPU ,Å,ìANVIDIA GPU ,ð•âŠ®,μ,Ä 3D fQ[]f€,âfAfvfŠ,ìpftfH[]f}f“fX,ðCEü[]ã,³,¹,é’Ç%oÁ
3D fCf“fXfgf%ofNfVf#f“,âfTf|[]fg,³,è,Ä,ç,Û,·B ,±,ìfìfvfVf#f“,ðŽg—p,·,é,Æ[]Afhf%ofCfo,Å,±
,è,ç,ì’Ç%oÁ 3D fCf“fXfgf%ofNfVf#f“,âfTf|[]fg,³,è,È,È,è[]AfpftfH[]f}f“fX”âŠr,âfgf%ofuf<fVf...
[]fefBf“fO,É—L—p,Å,·B

OpenGL, fAfvfŠ, 3fXfefCEfl, đŽg—p, μ□AfXfefCEfl fVffbf^□[fOf%ofX, đ—LCEø, É, Å, «, é, æ, ɣ□Afhf
%ofCfo, ÅfXfefCEfl, ľsfNfZf< ftjH□[f}fbfg, đfGfNfXf|□[fg, Å, «, é, æ, ɣ, É, μ, Ü, ·□B

OpenGL fAfvfŠ,šfi[]fo[]fCfC,đŽg—p,Å,«,é,æ,αAfhf%ofCfo,Åf[]fo[]fCfC fsfNfZf<
ftfH[]f}fbfg,đfGfNfXf[]fg,Å,«,é,æ,α,É,μ,Ü,·B

OpenGL fhf%ofCfo,É,æ,Á,Ä 1 ,Â,lfobfN fobftf@,Æ 1 ,Â,ì[‘wfofbftf@,ªAfffBfXfvfCfC,Æ“~,¶
%øð’œ“x,ÉŠ,,è“-,Ä,ç,ê,é,æ,π,É,μ,Ü,·□B

- flfvfVf#f“,δ-LCEø,É,·,é (flf“,É,·,é) ,Æ□A•;□”,lfEfBf“fhfE,δ□ì□-,·,é OpenGL fAfvfŠ,ª□Afrffl f□f,š,δ,æ,èCEø—
!“l,ÉŽg—p,·,é,æ,π,É,É,è□AfpftfH□[f}f“fX,ª%ü’P,ª,ê,Ü,·□B
- ,±,lfifvVf#f“,δ-³CEø,É,·,é (flft,É,·,é) ,Æ□AOpenGL fhf%ofCfo,É,æ,è□AfvfŠ,É□ì□-,ª,ê,½fEfBf“fhfE,²,Æ,ÉfobfN
fobftf@,Æ□[‘wfofbftf@,ªŠ,,è“-,Ä,ç,ê,Ü,·□B

'l'đ,μ,½ OpenGL fAfvfŠ,ÉÅ“K,ÈŸ'è,đs,č,Ü,·B fŠXfg f{fbfNfX,ì-
î^ó,đfNfŠfbfN,μ,ÄAfAfvfŠ,lfŠXfg,đ•\Ž!,μA,»,±,©,ç 1 ,Á'l'đ,μ,Ä,,¾,¾,čB

ftf<fXfNfŠ[]f“ OpenGL fAfvfŠ—p,lfofbftf@ ftfŠfbfv f,[]fh,ðE^'è,μ,Û,·[]B [fuf[]bfN“]’--@]
,Û,½,Í [Ž“®‘ð] ,©,ç‘l’ð,Å,«,Û,·[]B
[Ž“®‘ð] ,Å,Í[]Afn[]fh,ì\[]¬,©,çfhf%oofCfo,ª[]Å“K,ÈŽè-@,ðE^'è,μ,Û,·[]B

OpenGL , Å, '¼"~Šú, Ç, π^—, ³, ê, é, ©Žw'è, μ, Ü, ·B

- í, Éift - OpenGL fAfvfŠ, Å, '¼"~Šú, ðí, É-³CEø, É, μ, Ü, ·B
- Šù'èÝ'è, Å, íift - fAfvfŠ, ©, ç-¾Šm, É—v<, ³, ê, È, †CEÀ, èA, '¼"~Šú, ð-³CEø, É, μ, Ä, ¨, «, Ü, ·B
- Šù'èÝ'è, Å, íift" - fAfvfŠ, ©, ç-¾Šm, É—v<, ³, ê, È, †CEÀ, èA, '¼"~Šú, ð—LCEø, É, μ, Ä, ¨, «, Ü, ·B

CE»Ÿ,ìŸ'è,ðffXf^f€,ì•t%ÁŸ'è,Æ,μ,Ä•Ů'¶,μAZŸ,†,Å—x,lfŠfXfg,É'Ç%Á,Å,«,Û,·B
“Á'è,ì OpenGL fAfvfŠ,ÅÅ“KŸ'è,ªCE©,Â,©,Á,½ê#A,»,ê,ðffXf^f€•t
%ÁŸ'è,Æ,μ,Ä•Ů'¶,·,é,ÆAfAfvfŠ,ðŠŽn,·,é'O,É,·,î,â, OpenGL
,ªŸ'è,Å,«,é,ì,ÅAŠeflfvf†f“,ìCEÂ•ÊŸ'è,ªÈ,·,Û,·B

fXf%ofCf_[][,đ" ®,©,.,Æ[]A'l'đ,μ,½ffj%oo[] f`fff"flf<,l -¾,é,³[]AfRf"fgf
%ofXfg[]AfKf"f} 'l,đ'²[]®,Å,«,Ü,·[]B

ffj%oo[][•â³[]Ý'è,đ—~—p,.,é,Æ[]A\[]fX fCf[][]fW,Æ•\Ž!fffofCfX,Å,ì[]o—
l,l<P"x,l,î,ç,Å,«,đ•â³,Å,«,Ü,·[]B fCf[][]fW^—[]fAfvfŠ,đŽg—p,.,é[]ê[]#[]Afjf
%oo[][•â³[]Ý'è,đ'²[]®,.,é,Æ[]AfffBfXfvfCfC fffofCfX,ÅfCf[][]fW (ŽÊ[]^,È,Ç) ,đ,æ,è³Šm,Éffj
%oo[][•i[]>,Å,«,Ü,·[]B
,Ü,½[]A'½,,l 3D fAfNfZf%ofC[][]fefbfh fQ[]f€,Å[]A•\Ž!,ª^ Ā,.,-,ÄfvfCfC,Å,«,È,ç,±,Æ,ª, ,è,Ü,.,ª[]A
-¾,é,³,âfKf"f} 'l,đ,.,x,Ä,lj`fff"flf<,Å"™,μ,[]ã,°,é,Æ[]A•\Ž!,ª-¾,é,,È,è[]AfvfCfC,μ,â,.,,È,è,Ü,·[]B

fŠfXfg f{fbfNfX,ì-î^ó,ďfNfŠfbfN,·,é,Æ□AfXf%ofCf_□[,Å□\$CEä,³,ê,éJf
%o□[f`fff"flf<,đ'ì'đ,Å,«,Ü,·□B □Ô□A—î□A□Â,ìCEÂ•É'²□®,Ü,½,Í³ □F""Žž'²□®,ª,Å,«,Ü,·□B

fffWf^f<<P"x,íAfff%o[•ª—£,Æfff%o["Z"x,ð§CEä,μA-¾,é,'N-¾,ÈfCf[]fW,ð•Ž|,μ,Ü,·B
fXf%ofCf_[,ðŽg—p,μ,ÄAfffWf^f<<P"x,ìfCfxf<,ð [fift]A['á]A['t]A[,]A[Å'å]
,É'²@,μ,Ä,¾,¾,çB

fjf%o[<Èü,lfOf%oftfBfbfN•\Ž|B ,±,ì<Èü,í[AfRf“fgf%ofXfgA-
¾,é,³AfKf“f}’l,đ’²® ,·,é,ÆAfŠfAf^fCf€,Å•í%o»,μ,Ü,·B

Ä<N“®ĈĚă,Éfjf%o[’²® ,đŽ©“®“l,É“K—p,·,é,É,ÍA,±,lfvfVf#f“,đ—LĈø,É,μ,Û,·B
f f, FfRf“fsf...[f^,đfifbfgf[fN,ÅŽg—p,μ,Ä,ç,é^öİ,ÍAWindows ,Éf fOfif“,μ,½ĈĚă,Åfjf
%o[,²® ,³,ê,Û,·B

• Ů‘ŕ,µ,½ffXf^f€ fff%o[[ŕŕ’èfŠfXfg,đ•\Ž!,µ,Ů,·B

• Ů‘ŕ,µ,½ŕŕ’è,đ•œE³,·,é,É,ÍAfŠfXfg,©,ç€-Ů,đ‘đ,µ,Ä,,¾,³,çB

ffCF“fg,Èff%□□[□Ý'è,ðffXf^f€□Ý'è,Æ,μ,Ä•Û'¶,Å,«,Ü,·□B •Û'¶,³,ê,½□Ý'è,^a—x,lfŠfXfg,É'Ç
%□Á,³,ê,Ü,·□B

fŠfXfg,ÅŒ»□Ý'!ð,³,ê,Ä,ç,éjffXf^f€,\jff%o□[□Ý'è,ð□í□œ,Å,«,Ü,·□B

,.x,Ä,lfjf%o[]'l,afn[]fh[]o%oxŽž,ìÝ'è,É-ß,è,Ü,.[]B

[NVIDIA] fAfCfRf",đ Windows f^fXfNfo[,É'Ç%Á,μ,Ü,·B

- ,±,lfAfCfRf",đŽg—p,·,é,ÆA•Ö—~,Èf|fbfvfAfbfv fffj...[,©,cfjXf^f€
Direct3DOpenGLAfj%o[[]'è,đ,·,î,â,"K—p,Å,«,Ü,·B
- ,Ü,½A%Šú'è,É-β,·€-Ú,â [%æ-Ê,lfvf[]pfefB] f_fCfAf[]fO,ÉfAfNfZfX,·,é€-
Ú,àŠÜ,Ü,ê,Ä,ç,Ü,·B

Windows f^fXfNfo[.,Å NVIDIA □Ý'èft□[fefBfŠfefB,Æ,μ,Ä•\Ž!,.,éfAfCfRf“,đ'l'đ,Å,«,Ü,.□B

1. •\Ž!,.,éfAfCfRf“,đfŠfXfg,©,ç'l'đ,μ,Ü,.□B

2. [“K—p,.,é] ,đfNfŠfbfN,μ,Ä□Af^fXfNfo[.,lfAfCfRf“,đ□X□V,μ,Ü,.□B

fffXfNfgfbfv,É [nView **fvf[]pfefB**] flfvfVf#f“ ,đ'Ç%Á,μ,Ä[]AnView Desktop Manager ,đ—
LCEø,É,μ,Ü,·[]B

fffXfNfgfbfv,đ%EfNfŠfbfN,μ[]A[nView **fvf[]pfefB**] ,đfNfŠfbfN,·,é,Æ[]AnView Desktop
Manager ,lfvf[]pfefB fpfjf<,ª•\Ž!,³,ê,Ü,·[]B

[Desktop Manager ,đ—LĚø,É,•,é] flfvfVf#f“ ,đ—LĚø,É,μ,½Ěă,Å nView Desktop Manager
fvf□fpfefB fpjf<,Š),,æ,æ,É,È,è,Ü,•□B
,±,lfpfjf<,đŽg—p,•,é,Æ□A’P^ê/•□”,jffXfNfgfbfv/jffBfXfvfĚfC (f,jf^) —p,ì,³,Ü,´,Ü,È
Desktop Manager <@“\,đ□Ý’è,Å,«,Ü,•□B

,±,ê,ç,lfvfjvfj“,đŽg—p,·,é,Æ□AƒTf|□[fg,³,ê,é□Å□,%øđ'œ“x,æ,è'á,ç□Ý'è,Åftf%øfbfg
fpjf<,đŽÅ□s,·,é□ê□‡,l%øæ'œ“z'u,đCE^'è,Å,<,Ü,·□B

-î^óf{f^f“,đŽg—p,;é,Æ□AfffBfXfvfĒfC□ã,̀ffXfNfgfbfv,ì^Ê'u,đ'²□®,Å,«,Ü,·□B

NVIDIA GPU 'í%žOf%ftfBfbfNfX fj[]fh,ÅfTf|[]fg,·,éffofCfX,ÉŠ,Ä,ç,Ä[]AfffBfXfvfCfC
ffofCfX (f,fjf^[]AfffWf^f< ftf%ofbfg fpflf<[]A_{TV}) ,đ'l'đ,μ,Ä,,¾,¾,ç[]B

fEjBf“fhfE,Šj,«AfAfNfefBfu,ÈffBfXfvfÆfC fffofCfX,ìÝ'è,ðjffXf^f}fCfY,Å,«,Ü,·B

«»Ý,ìÈ`Ž® ,Æ TV □o—í,ÉŽg—p,·,é□',đ'l'đ,Å,«,Ü,·□B

“Á'è,ì TV □o—ÍĚ`Ž® ,đŽw'è,Å,«,éf_fCfAf□fO f{fbfNfX,ŠJ,«,Ü,·□B

,±,lfŠfXfg,Å,íA<□□Z□',ÉŠî,Ã,ç,Ä TV □o—íE`Ž® ,ð'í'ð,Å,«,Ü,·□B

f□f,□F□'-¼,²fŠfXfg,É•\Ž|,³,ê,Ä,ç,È,ç□ê□‡,í□A□Š□Ý'n,É□Å,à<ß,ç□'-¼,ð'í'ð,μ,Ä,,¾,³,ç□B

TV ,É'—□M,.,é□o—í□M□†,ìf^fCfv,đŽw'è,Å,«,Ü,·□B

- 'Í%ž,.,éfRfIfNf^ fP□[fuf<,ì□ê□#□A'Ê□í,í [s frfffi□o—Í] ,ì•û,^a [fRf“f]fWfbfg frfffi□o—Í] ,æ,è□,•iŽ,Å,·□B
- ,Ç,ìf^fCfv,đ'l'đ,.,ê,î,æ,ç,©•s-¾,È□ê□#,í□A[Ž©“®'l'đ] □Ý'è,đ'l'đ,μ,Ä,,¾,³,ç□B

-î^óf{f^f",đfNfŠfbfN,·,é,Æ□AfefCEfr,É·\Ž!,³,é,éfffXfNfgfbfv,î^Ê'u,đ'^2□®,Å,«,Ü,·□B
f□f,□F%œ"ˆx,î'^2□®,Å%œ'œ,³fXfNf%of"fu</fu%of"fn,É,È,é□ê□#□A10 •b'Ò,Á,Ä,,¾,³,ç□B
%œ'œ,ÍŽ©"®"l,ÉŠù'è^Ê'u,É-ß,è□A'^2□®,đ□ÄŠJ,Å,«,é,æ,ˆ,É,È,è,Ü,·□B fffXfNfgfbfv,đŠó-]
,î^Ê'u,É"z'u,μ,½,ç□A["K—p,·,é],đfNfŠfbfN,μ□A10 •b^È"à,É□Y'è,đ•Û'¶,μ,Ü,·□B

ffCEf“fg,È%øđ‘œ“x,ìŠù‘è^Ê‘u,ÉffXfNfgfbfv,đfŠfZfbfg,Å,«,Ü,·□B

fXf%ofCf_[][,đ“ ®,©,μ,Ä[]A^{TV} %œ'œ,ì-¾,é,³,đ'²[]®,Å,«,Û,·[]B

#Xf%ofCf_[][,đ" ®, ©, μ, Ä A TV %æ'œ, ðRf"fgf%ofXfg, ð'²[]®, Å, «, Ü, ·[]B

fXf%ofCf_[][,đ" ®, ©, μ, Ä A TV %æ'œ, ìÊ"x, đ'² ®, Å, «, Ü, · B

fXf%ofCf_[][,đ“® ,© ,μ,Ä[]AfejCEfr,ì[]M[]+,É“K—p,;éftfŠfbj ftfBf<f^—Ê,đ'²[]®,μ,Û,·[]B
f[]f,[]Ffn[]lfh fffR[]lf_,©,ç DVD ,đ[]Ä[]¶,·,é[]ê[]#[]AftfŠfbj ftfBf<f^,lfXfCfbf` ,đ[]Ø,Á,Ä,,¾,³,ç[]B

,±,ê,ç,lfRf“fgf□□[f<,đŽg—p,·,é,Æ□AfffBfXfvfÆfC fffofCfX (f,ffj^),É•\Ž|,³,é,éfrfffI,â DVD
%œæ'œ,i•iŽi,đ'²□®,Å,«,Ü,·□B

fRf“fsf...□[f^,ÅfrfffI,â DVD %of%œæ,đ□Ä□¶,·,é,Æ,«,É□A-¾,é,³□Afrf“fgf
%ofXfg□A□F'Š□A□É“x,đ•É□X,É'²□®,μ□A□Å“K,ÈfCf□□[fW•iŽi,Å•\Ž|,³,¹,é,±
,Æ,ª,Å,«,Ü,·□BNVIDIA GPU ,lfRfA,“,æ,Ñf□f,š fNf□fbfNŽüŠú,đ'²□®,μ,Ü,·□B

NVIDIA GPU ,lfRfA fNf[]bfjN fXfs[]fh,đ[]Ý'è,μ,Ü,·[]B

fRfA fNf[]bfjN fXfs[]fh,đ MHz 'P^Ê,Å•\Ž|,μ,Ü,·□B

fOf%oftfBfbfNfX fj[]fh,ì[]f,fŠ fCf“f^ftfF[]fCfX,ìNf[]fbfN fXfs[]fh,đ[]Ý’è,μ,Û,·[]B

f f, fš fCf“f^ftfF[fCfX,)jNf[fbfN fXfs[fh,đ MHz 'P^Ê,Å•\Ž|,μ,Ü,·B

V<KfNf fbfNžŮšú, ìŸ'è, ð“K—p, ·, é'O, ÉA^À'è«, ðfefXfg, μ, Ü, ·B

f f, F »' ç CE³, ì%ŠúŸ'è, Æ^Ù, È, éV, μ, çŸ'è, íA P<v“l, É“K—p, ·, é'O, É•K, ,fefXfg, μ, Ä, -
, ³/4, ³, çB

fNf[]fbfNžšú,É%Á,½•ï[]X,[]AWindows <N“@žž,Éž©“@“I,É“K—p,³,é,é,æ,α,É,μ,Ü,·[]B
f[]f,[]FWindows <N“@žž,É ctrl fL[],ð%Ÿ,·,Æ[]Až©“@fNf[]fbfN[]ý'è,ðfofCfpjX,Å,«,Ü,·[]B
flfbfgf[][]fN[]ú'±,ì[]ê[]#[]AWindows ,Éf[]fOjlf“,μ,½'¼Āă,É ctrl fL[],ð%Ÿ,μ,½,Ü,Ü,É,μ,Ü,·[]B

☐\$€ä,ì☐Ä—L€ø%»'O,É'SfNf☐fbfN,đfŠfZfbfg,μ☐AfOf%☐ftfBfbfNfX fn☐[fh,ì☐Ä€Ÿ☐o,đ<-
☐s,μ,Ü,·☐B

f☐f,☐F☐X☐V,μ,½ BIOS fCf☐☐[fW,ÅfOf%☐ftfBfbfNfX fAf_fvf^,ì BIOS ,đftf%☐fbfVf...
.·,é,½,Ñ,ÉfŠfZfbfg,μ,Ä,,¾,¾,ç☐B

nView • W € , í A f v f " f o f < f f f B f X f v f C e f C f , [f h , Å A NVIDIA GPU f O f % o f t f B f b f N f X
f j [f h , É f f B f X f v f C e f C f f f o f C f X , ð 1 , Á , ¾ , U ' ± , µ , Ä , ç , é ê ð † , É Ž g — p , µ , Ú , · B

[nview fNf[]f"] f,[]fh,í[]Afvf%ofCf}fš fffBfXfvfCefC,Æ"~,¶%æ-Ê,ðfZff"f_fš
fffBfXfvfCefC,É[]o—í,µ,Ü,·[]B

[nView □...•½fXfpf“] f,□[fh,Å,í□A2 ,Â,)fffBfXfvfCefC fffofCfX,É windows fffXfNfgfbfv,đ□...
•½,ÉŠg'£,Å,«,Ü,□B 2 ,Â,)fffBfXfvfCefC,íC<□†,μ,Å□L,fXfpf“,μ,½fffBfXfvfCefC
fT□[ftfFfCfX,đC`□¬,·,é,ì,Å□Afvf“fOj< fffBfXfvfCefC,æ,è□L,cfAfCfef€,đ•\Ž|,·,é,ì,É•Ö—~ ,Å,□B

[nview □, '¼fXfj"] f, □[fh, Å, Í□A2 , Å, ìfffBfXfvfCefC fffofCfX, É Windows
fffXfNfgfbfv, ð□, '¼, ÉŠg' £, Å, «, Ü, ·□B 2 , Å, ìfffBfXfvfCefC, ÍCE<□+, μ, Å□ã
%ooº, ÉfXfj" , μ, ½fffBfXfvfCefC fT□[ftfFfCfX, ðCE` □-, , , é, ì, Å□AfVf" fOf<
fffBfXfvfCefC, æ, è" w, º□, , çfAfCfef€, ð•\Z|, , , é, ì, É•Ö—~ , Å, ·□B

nView fffBfXfvfCEfCŸ'è,lfOf%oftfBfbfN,ð•\Ž!,μ,Ü,·□B

§ f,fjf^ fCf□□lfW,ðfNfŠfbfN,·,é,Æ□AjjfCEf"fg,ÈfffBfXfvfCEfC,ð'I'ð,Å,«,Ü,·□B

§ f,fjf^ fCf□□lfW,ð%oEfNfŠfbfN,·,é,Æf|fbfvfAfbfv f□fjf...□[,ª•\
Ž!,³,ê,é,ì,Å□AŠÖ~AfffBfXfvfCEfC fffofCfX,ìŸ'è,ð'²□@,μ□A [jjf%□[•â□³]
f^fu,ÉfAfNfZfX,Å,«,Ü,·□B

fZfjf“f_fŠ [fNf□□[f“ f,□[fh] fffBfXfvfCEfC,ìCE»Ý,ìfpf“^Ê'u,ðCEÁ'è,Á,«,Ü,·□B
%¼'zfffXfNfgfbfv,ð“C^Ó,ì^Ê'u,ÉCEÁ'è,Á,«,é,ì,Á□AfAfvfŠ,Á,ìvfCEf[f“ ,â□Ú□×•”,ì□à-¾Žž,É•Ö—
~,Á,·□B

Šg'âkñ-,·,éjrrffl!%æ-Ê—î^æ,đ'l'đ,·,é,É,ÍA't%>/-î^ófAfCfRf“,đfNfŠfbfN,μ,Û,·B 'l'đ,μ,½,ç
%º,lfYl€ fXf%ofCf_l,đ^Ú“® ,μ,ÄA%æ-Ê,ì'l'đ•”•ª,đŠg'âkñ-,Å,«,Û,·B

fXf%ofCf_[][,đ^Ú“®,,é,Æ[]AfrfffIÄ[]¶%œ-Ê,ì'đ,μ,½•”•ª,đŠg'â[]k[]-,Å,«,Ü,·[]BfŠfXfg
f{fbfNfX,î-î^ó,đfNfŠfbfN,,é,Æ[]AfrfffI,đ•Ž|,,éfffBfXfvfCfC,É,æ,è[]A [fvf%ofCf}fŠ
fffBfXfvfCfC] ,Ü,½,Í [fZfJf“f_fŠ fffBfXfvfCfC] ,đ'ì'đ,Å,«,Ü,·[]B ftf<fXfNfŠ[]f“ f,[]fh,đ-
³Cø,É,,é,É,Í[]A [-³Cø,É,,é] ,đ'ì'đ,μ,Ü,·[]B

f[]fo[]fC fvtfgfEjFfA,ð<[]s,μ,Ä[]AfofXf}fXf^fŠf“fO,ðŽg—p,μ,Ü,·[]B

f[]f,[]F”j%ó,â%æ’œ,°o,È,ç,È,Çfrffl,ìÄ[]¶,Å-â’è,°È,çEÀ,è[]A,±,ìf!fvjVf†f“,í’!ð,μ,È,ç,Å,-
,³/₄,³,ç[]B

'l'đ,μ,½fOf%oftfBfbfNfX fj[]fh,ÅŽg—p,·,éfffBfXfvfEfC fffofCfX,ìŽí—p,đ•\Ž!,μ,Ü,·□B

fffofCfX,ÆffBfXfvfCfC,lfhf%oofCfo fvf[]pfefB,đ•\Ž|,Å,«,Ü,.[]B

,±,lf,ff^,ÅŽg—p,Å,«,éfŠftfĚfbfVf... fĚ[]fg,đ—ň<L,μ,Ü,·□B fŠftfĚfbfVf...ŽüŠú,đ□,,·,é,Æ□A
%œ-É□ã,lfťŠfbfJ,ªĚ,□,μ,Ü,·□B

fffBfXfjvfCfC,ÅfTf|[]fg,³,ê,È,çf,[]fh,ð [fŠftfCfbfVf...ŽüŠú] ,lfŠfXfg,É•\Ž!,·,é,©,Ç,κ
,©,ðŽw'è,μ,Û,·B

'^ÓFfffBfXfjvfCfC,ÅfTf|[]fg,³,ê,È,çf,[]fh,ð'l'ð,·,é,ÆA[][],È•\Ž!fGf%o[][,ª"-
[]¶,μ,½,è[]Afn[]fh,ª¹[][],·,é[]ê[]‡,ª, ,è,Û,·B

řã,Å'İ'ď,μ,½fAfCfRf",É'î%ž,·,éfffBfXfvfĚfC,ďAfvf%ofCf}fŠ fffBfXfvfĚfC,Æ,μ,ÄŽw'è,μ,Û,·B
fRf"fsf...[f^,ď<N"@,·,é,ÆAfvf%ofCf}fŠ fffBfXfvfĚfC,ÉAfOfOf" f_fCfAfOfO f{fbfNfX,ª·\
Ž!,³,ê,Û,·B ,Û,Æ,ň,Ç,İfAfvfŠ fEfBf"fhfE,ÍA%oo,ß,ÄŠJ,ê#AŠù'è,Äfvf%ofCf}fŠ
fffBfXfvfĚfC,É·\Ž!,³,ê,Û,·B fvf%ofCf}fŠ fffBfXfvfĚfC,ÍAfffXfNfgfbfv,İã·"¶÷,ďŠÛ,Ý,Û,·B

ffjCEf“fg,È nView fffBfXfvfCEfC,â,.,x,Ä•\Ž;³,ê,Ü,·□B •j□”,lfffofCfX,â□Ú’±,³,ê,Ä,ç
,é,Æ,«,É•W□€^ÈŠO,lf,□lfh,É□Ø,è’Ö,|,½□ê□±,í□A,±,±,ÅffjCEf“fg,ÈfffBfXfvfCEfC,ð’l’ð,Å,«,Ü,·□B
□ã,lf,ffj^,lfCf□□lfW,ðfNfŠfbfN,.,é,Æ□AfffCEf“fg,ÈfffBfXfvfCEfC,Æ,μ,Ä’l’ð,.,é,±,Æ,à,Å,«,Ü,·□B

ffCEf“fg,ÈffBfXfvfCEfC,Æ,μ,ÄŽg—p,·,é□o—ÍffofCfX,đ□Ý’è,Ü,½,Í•ï□X,Å,«,Ü,·□B

fOf%oftfBfbfNfX fj[]fh,É[]Ú'±,³,ê,Ä,ç,é'SfffBfXfvfCefC,ðCEÿ[]o,Å,«,Ü,·[]B
f[]f,[]FfRf"fgf[][]f< fpf!f<,ðŠj,ç,½CEã,ÅfffBfXfvfCefC,ð[]Ú'±,μ,½[]ê[]#,ÉŽg—p,μ,Ü,·[]B

f,ffj^,a-çEÿo,lfZff"ffš fffBfxfvfçfC fRfjfNf^,ÉÚ'±,³,ê,Ä,ç,éê±A,±,lf`fFbfN
f{fbfNfX,ðfj",É,µ,Û,·B ,±,ê,íACEÄ,çf,ffj^,ð BNC fRfjfNf^,ÉÚ'±,µ,Ä, ,éê±•Ö-~,Å,·B

NVIDIA GPU ,İ'Ç%Á<@"\,ÉfAfNfZfX,Å,«,Ü,·□B

NVIDIA Web fTfCf9,ÉfAfNfZfX,μ,ÄANVIDIA GPU ,lÅVî•ñ,âfhf%ofCfo,ð"üŽè,Å,«,Ü,·B

«»'í'ð,³,é,Ä,ç,é NVIDIA GPU ,lfñ[h,ìÚ×[í•ñ,Å,·B

fOf%oftfBfbfNfX,lfptfH[f}f“fX’S”Ê,É%oe<¿,·,é“Á’è,lfVfXfef€€-Ú,ìÚ×î•ñ,Â,·B

NVIDIA GPU ,ÅŽg—p,·,éftf@fCf<,l□à-³/4,âfo□[fWf#f“,lfŠfXfg,Å,·□B

3D fAfvfŠ,ÅfAf“f`fGfCfŠfAfX,đ-³CEø,É,μ,Û,·B

f□f,□FfAfvfŠ,Å□Å□,,ìfpftfH□[f}f“fX,ª•K—v,È□ê□#,í□A,±,ìfìfvfVf#f“,đ—LCEø,É,μ,Ä,,¾,³,¢□B

fAf`f`fGfCfŠfAfX,đ 2x f,[]fh,Å—LĚø,É,μ,Ü,·[]B
f[]f,[]F^{3D} fAfvfŠ,ì%œŽ¿,ÆfpftfH[]f}f`fX,ªĚü[]ă,μ,Ü,·[]B

GeForce GPU ftj@f~fš[.Å“Á<-Žæ“¾ï,Ý,lfAf“f`fGfCfšfAfX<Zp,ðŽg—p%oÂ“\,É,μ,Ü,·B

fQuincunx fAf“f`fGfCfšfAfX,Å,íA2x fAf“f`fGfšfAfX f,[fh,Æ““™,lfpftfH[f}f“fX,Æ 4x
f,[fh,Æ““™,ì%oæŽ,¾,ç,ê,Ü,·B

fAf`f`fGfCfŠfAfX,đ 4x f,[]fh,Å—LÆø,É,μ,Ü,·[]B

f[]f,[]F^{3D} fAfvfŠ,Å,æ,è,æ,†%œŽ,ª“¾,ç,ê,Ü,·,ª[]AfpftfH[]f}f“fX,í’½[]’á%œ,μ,Ü,·[]B

fAf`f`fGfCfŠfAfX,đ 4x□A9 f^fbfv (fKfEfX) f,□[fh,Å—LÆø,É,μ,Ü,·□B

f□f,□F^{3D} fAvfš,Å,æ,è,æ,ç%œž,ı,“¾,ç,ê,Ü,·,□AfpftfH□[f}f“fX,í½□’á%º,μ,Ü,·□B

fAf“f`fGfCfŠfAfX,đ 4xS f,[]fh,Å—LCEø,É,μ,Ü,·[]B ,±,lf,[]fh,Å,ì%œŽ,í 4x f,[]fh,æ,è,,-
,È,è,Ü,·,°[]A3D fAfvfŠ,lfpftfH[]f}f“fX,ª'½[]'1,È,í,ê,Ü,·[]B

f[]f,[]F,±,ì[]Ý'è,í Direct3D fAfvfŠ,Å,ì,ÝCEø%œ,đ"Šö,μ,Ü,·[]B OpenGL
fAfvfŠ,đŽÅ[]s,·,é,Æ[]A4xS []Ý'è,ì'¼'O,ÉEÏ[]o,³,ê,½flfvfVf#f“ ,lfAf“f`fGfŠfAfVf“fO[]Ý'è,ªŽg—
p,³,ê,Ü,·[]B

fAf“f`fGfCfŠfAfX,đftf|[]fg,·,é 3D fAfvfŠ,ÉÅ“K,ÈÝ’è,đŽ©“®“l,É—LÆø,É,μ,Ü,·B3D
fAfvfŠ,đŽÅs,·,éfAf“f`fGfŠfAfX f,[]fh,đŽè“®,Å‘đ,Å,«,Ü,·B

ffCEf“fg,È AGP □Ýè,É,Â,ç,Ä,Ì□î•ñ,ð•Ž|,μ,Ü,·□B

fOf%oftfBfbfNfX fTfufVfXfef€ ,ÅŽg—p,.,é AGP fCE[]fg,ðŽè“®,Å'!ð,μ,Ä,,¾,¾,ç[]B

f[]f,[]F_{AGP} fCE[]fg,^a•s-¾,È[]ê[]+[]Af`fFfbfN f{fbfNfX,ðflft,ì,Ü,Ü,É,μ,Ä,,¾,¾,ç[]B fVfXfef€
,ÍŽ©“®“! ,É[]Å“KfCE[]fg,ðCE^`è,μ,Ü,·[]B

fXf%ofCf_[][,đ" ®,©,.,Æ[]AfOf%oftfBfbfNfX fTfufVfXfef€,Ăžg—p,.,é AGP
fĚ[]fg,đ'ı'đ,Ă,«,Ü,·[]B

fVfXfef€ f[]f,fš,©,ç"z•ª,³,ê,½frrffl f[]f,fš,ðfhf%oofCfo,ªšÇ—[],·,é•û-@,ð'l'ð,μ,Ä,,¾,³,†[]B

fjſŒf“fg,łftŒ[]f€ fofbftf@ f,[]fh,ÅŽw'è,³é,Ä,ç,é•û-@,ÅŽg—p,³é,éſVfXfef€ f[]f,ſŒ—
É,ðŽw'è,µ,Ä,,³/₄,³,ç[]B

f_fCfif~fbfN ftjCE[]f€ fofbftf@ f,[]fh,ÅŽg—p,,éftfCE[]f€ fofbftf@ f[]f,fŠŠÇ—[]Xfgf
%ofefW[],đŽw'è,μ,À,,¾,³,č[]B

NVIDIA PowerMizer <@\,Å,íAGPU ,ì“d—íÁ”i,ð<K§,Å,«,Ü,·B

[Å—“d—í] Ý’è,ÅfjbfefŠŽõ-½,ðß-ñ,·,é,©A[Å,,ìpftfH[f}f“fX] ,Å GPU ,ìftf< fOf
%oftfBfbfNfX fpftfH[f}f“fX,ð—~—p,μ,Ü,·B

•i□"□o—í,lfOf%oftfBfbfNfX fj□[fh,ð□AfCf"fxfg□[f<,μ,Ä,ç,éCEÂ•Êfj□[fh,Æ,μ,Ä windows ,Å□^—
□,Ä,«,é,æ,α,É,μ,Ü,·□B

f□f,□Ff}f<f`fffBfXfvfCEfC fOf%oftfBfbfNfX fj□[fh,É□Ú'±,μ,½ŠefffBfXfvfCEfC fffofCfX,ìCEÂ•Ê,ì
%oð'œ"x,â•\Z!□F□",ð'l'ð,Ä,«,Ü,·□B

OpenGL fXfefCEfl'Ç%ÁŸ'è,Æf[]fo[]fCEfC'Ç%ÁŸ'è,ðffXf^f}fCfY,·,éf_fCfAf[]fO f{fbfNfX,ªŠ],«,Ü,·[]B
f[]f,[]F,±,ìfpflf<,ì[]Á[]%,ìfŠfXfg f{fbfNfX,Å [4 ·ªŠ,,fXfefCEfl API ,ð—LCEø,É,·,é] flfvfVf#f",ðfAfNfefBfu
%»»,μ,½,Æ,«,ì,Ÿ[]A,±,ìf{f^f",ð—LCEø,É,Å,«,Ü,·[]B

OpenGL , ÅfiffofCEfC, ð—LCEø, É, µ, Ü, ·B

fiffofCEfC fvCEf“, ð—v< , ·, éfAvfŠ (—áFSoftimage3D) , à, , è, Ü, ·B , ±, é, íA'Êí, íjff
%o[(RGB) fofbftf@, Æ, Æ, à, ÉfpfCEfbfg—Ê, Æ, µ, ÄŽg—p, ³, è, Ü, ·B fiffofCEfC, íA fffj... [, âf [\
f<, É, ÇA3D fCf [W, ©, ç“Æ—š, µ, Äd, È, è‡, π·`%æ—í^æ, Å“Á, É•Ö—~, Å, ·B fiffofCEfC, íA16
, , æ, Ñ 32 frfbfg fff%o[f, [fh, ÅTf [fg, ³, è, Ü, ·B

fif, FOpenGL fXfefCEfi, ÆfiffofCEfC, íA“~Žž, ÉŽg—p, Å, «, Ü, ¹, ñB fiffofCEfC, íA fff“f{ [fh
fOf%oftfBfbfNfX f [f, fŠ, ð' [Y, ·, é•K—v, ^a, , èA%øð'œ“x, É, æ, Á, Ä, íXfefCEfi•\Ž, ðŽg—
p, Å, «, Ü, ¹, ñB fiffofCEfC<@“\, ÉfAfNfZfX, Å, «, È, ç [ê‡A
%øð'œ“x, Ü, ½, íF“, ð [, ³, ç'l, É, ·, é, ÆfAfNfZfX, Å, «, Ü, ·B

NVIDIA fhf%ofCfo,ÍŠeŽí,lfXfefŒfi fn[fh,đfTf][fg,μ,Ü,·B Šù'è^ÈŠO,lfXfefŒfi
fn[fh,ìè#AfŠfXfg f{fbfNfX,ÅffBfXfvfŒfC f,[fh,đ'í'đ,μ,Ä,,¾,³,čB

ELSA 3D REVELATOR™, 1/2, 1CEYŠ: fAf_fvf^, džg—
p, ., éê±, l, Y' l' đ, μ, Ä, , 3/4, 3, çB ±, ê, ç, lAf_fvf^, íAf_fjf^M±, ðACE»ÝŽs"l, 3, é, Ä, ç, éXfefCEfl
fn[h, l, ù, Æ, ñ, Ç, džg—p, ., é•W€%» 3 fsf" DIN , É•İŠ, μ, ù, ·B

f, FOf%ftfBfbfNfX f[h, É"à' 3 fsf" DIN frfNf^, a, , éê±AfAf_fvf^, džg, ç, ù, 1, ñB

[ft][fU][[,'¼fcf“f^fCE[fX f.fjf^] - fOf%oftfBfbfNfX fj[fh,ÉŽ©“@fXfefCEfi ftf%ofbfq
fpjf<,ºÚ'±,³,ê,Ä,ç,éèè‡,É'ı'đ,μ,Ä,,¾,³,çB

[nView fNf[f" f,[fh,đŽg—p,•,é] - fpfbfVfu fXfefCEfI fn[fh,đŽg—p,•,éê±,É'!•đ,μ,Ä,,¾,¾,çB ,±
,ìfìfvfVf†f",đŽg—p,•,é,É,íANVIDIA GPU ,Äff...fAf<fffBfXfvfCEfC fOf%oftfBfbfNfX fj[fh,ÉfvfWfFfNf^,đÚ'±
,μA[nView fffBfXfvfCEfC f,[fh] f^fu,Ä nView fNf[f" f,[fh,đŽg—p,μ,Ä,,¾,¾,çB
^ê•ù,ìfffBfXfvfCEfC,è¶,ìŽ< "_,đA,à,æ^ê•ù,ìfffBfXfvfCEfC,è%E,ìŽ< "_,đ•Ž!,μ,Ü,•B

f,f,□Fff...fAf<fffBfXfvfCEfC (,Ü,½,lf}f<f^fffBfXfvfCEfC) fOf%oftfBfbfNfX fj[fh,Ä,ì,YŽg—p,Ä,«,Ü,•B

[f]f“f{[fh DIN fRf]fNf^,ðŽg—p,·,é] - fOf%oftfBfbfNfX fj[fh,É“à’ 3 fsf“ DIN
fRf]fNf^,â“<ú,³,ê,Ä,ç,éê±,É’l’ð,µ,Ä,,³/4,³,çB ,±,ìê±AstereoGraphics fOf
%ofX,É,Ç,Æ““«,³,ê,Ä,ç,é“Á•Ê,lfAf_fvf^,Í•s—v,Å,·B 3 fsf“ DIN fRf]fNf^,ðŽg—
p,µ,Ä“A”C^Ó,lfXfefÆfi fn[fh,ðfOf%oftfBfbfNfX fj[fh,É’¼úú’±,Å,«,Ü,·B

[StereoGraphics StereoEyes]»•i—p Blue-Line-Code ,đŽg—p,•,é] - fAf_fvf^,ª
StereoGraphics StereoEyes ,Ü,½,íCEÝŠ·[]»•i,Æ[]o%ox,ª,ê,Ä,ç,é[]ê[]#[]A,±,lf|fvfVf#f“ ,đ'í'đ,µ,Ä,-
,¾,ª,ç[]B ,±,ê,ç,lfAf_fvf^,í[]Af.fjf^[]M[]t,đ[]ACE»[]ÝŽs”í,ª,ê,Ä,ç,éfXfefCEf| fn[]|fh,í,Ü,Æ,ñ,ç,ªŽg—
p,•,é•W[]€%o» 3 fsf“ DIN fRf|fNf^,É•íŠ,µ,Ü,·[]B
f[]f,[]FfOf%oftfBfbfNfX fj[]|fh,É“à’ 3 fsf“ DIN fRf|fNf^,ª, ,é[]ê[]#[]AfAf_fvf^,đŽg,ç,Ü,¹,ñ[]B

fXfefCEfICEø%oÊ,ð•\Ž!,Å,«,È,çêê#A,±,lfvfVf#f“,Å¶%oE,lfCf[]fW,ð“ü,ê‘Ö,|,Ä,,¾,³,çB
f[]f,[]F^ê”Ê,É[]A[],¼fCf“f^fCE[]fX f,fjf^,ÅfpfbjVfu f,[]fhŽž,ì,ÝŽg—p,μ,Ü,·B

,±,lfvfVf#“,íAfefNfXf`ff f}fbfv,É,æ,èŽg—p,³,ê,éff,fŠ,ðÅ’âĀÈ”ö’~,Å,«,Ü,·B fefNfXf`ffW-
ňAfvfŠ,lfptfH[f}f“fX,íĀüã,μ,Ü,·,ªA”ňfefNfXf`ffW-ňAfvfŠ,lfptfH[f}f“fX,ª½¹,Ē,í,ê,Ü,·B

fAf`f`fGfŠfAfX,đ—LCEø,É,μ,Ä 3D fAfvfŠ,đŽÀ□s,·,é□ê□#□AfefNfXf`ff,ª‘N%os,É,È,è□A
%oæŽ,ªCEü□ã,μ,Ü,·□B

fXf%ofCf_[][,đ“® , © , , ,Æ[]AfeNfXf`ff,É“K—p,³,ê,é^Ù•û[]«ftfBf<f^fŠf“fO,đ[]Ý'è,Å,«,Ü,·[]B
[]Å[],[]Ý'è,Å[]Å[],,ì%œŽč,Æ,È,è[]A[]Á'á[]Ý'è,Å[]Á'âfpftfH[]f}f“fX,Æ,È,è,Ü,·[]B

fRf“fgf□□lf< fpflf<,Á,Í•\Ž!,³,é,È,,Ä,à□AfOf%oftfBfbfNfX fj□[fh,É□Ú’±,³,é,Ä,ç,é TV ,đ<-
□\$CEY□o,μ,Ü,·□B ,±,é,í□A’Á’è,ì TV f,fff<,²□M□†,đ□³,μ,“Ç,Ý□ž,Ü,È,ç□ê□†,ÉfOf%oftfBfbfNfX
fj□[fh,đCEY□o,Á,«•Ö—~,Á,·□B

TV □Ý’è,đ—LCEø,É,·,é,É,í

1. f`fFfbfN f{fbfNfX,đfif“,É,μ,Ü,·□B
2. fvf□“fvfg•\Ž!Žž,ÉfRf“fsf...□lf^,đ□Ä<N”©,μ,Ä□A f□fOfCf“,μ,Ü,·□B

[%o;] ,ÍuŠù'èvf,[fh,Å,·B

[c] ,É,æ,èAfffXfNfgfbfv,Í 90 “x%ñ”],μ,Ü,·B

□m"½"],μ,Ä%oi□n ,É,æ,è□AfffXfNfgfbfv,Í 180 "x%oñ"],μ,Ü,·□B

["½"],μ,Ä[]c] ,É,æ,è[]AfffXfNfgfbfv,Í 270 "x%oñ"],μ,Ü,·[]B

%E-î^ó (-> f{f^f",ÅA%°°ì%ñ"]f|fvfVf#f",đŽÀ[s,Å,«,Ü,·B ,Ü,½A%Eã,ìŠÂó-î^ó,ÅA
%ñ"],ì•ûĚü,É^Ú"®,Å,«,Ü,·B

□¶-î^ó (<-) f{f^f“,Å□A%°°,ì%°ñ“]f|fvfVf‡f“,ðŽÀ□s,Å,«,Ü,·□B

• i□",lfffBfXfvfCfC,â^Ù,È,éfNf%ofX,l NVIDIA GPU Žg—pŽž,É□A□Ú□×fCf"f_fŠf"fo
flfvfVf#f",δC^`è,μ,Ü,·□B

f□f,□FWindows NT 4.0 ,Å nView Multiview f,□[fh,δŽg—p,·,é□ê□#□Af}f<f`fffBfXfvfCfC
fn□[fh%oÁ'—flfvfVf#f",í"K—p,³,ê,Ü,¹,ñ□B

- [fvf"fof< fffBfXfvfCfC f,□[fh] - fAfNfefBfu fffBfXfvfCfC,ª 1
,Å,l□ê□#□A,»è,ªSù`è□Y'è,Æ,E,è,Ü,·□B %oo,Å□à-¾,·,é□uf}f<f`fffBfXfvfCfC□vf,□[fh,Å-
â`è,ª"□l,μ,½□ê□#□A,±,ì□Y'è,δŽw'è,Å,«„Ü,·□B
- [nView fNf□□[f"/fXfpf" f,□[fh] - nView fffBfXfvfCfC□Y'è,ªAnView fNf□□[f",Ü,½,lfXfpf"
f,□[fh,ì□ê□#□ASù`è□Y'è,Å,·□B •i□",l NVIDIA GPU fx□[fXfof%oftfBfbfNfX
fj□[fh,δfAfNfefBfu fffBfXfvfCfC,Æ,Æ,à,ÉŽg—p,·,é□ê□#□A%oo,Å□à-
¾,·,é□uf}f<f`fffBfXfvfCfC□vf,□[fh,ì 1 ,Å,Æ'u,«Š,·,ç,ê,Ü,·□B
- [f}f<f`fffofCfXCEŸ·□<f,□[fh] - nView Dualview f,□[fh,ÅfAfNfefBfu fffBfXfvfCfC,ª 2
,Å^É□ã,·,é□ê□#□A,Ü,½,í^Ü,È,éfNf%ofX,l NVIDIA GPU fx□[fX fj□[fh,δŽA□s,μ,Å,ç
,é□ê□#,ÉŽg—p,Å,«„Ü,·□B

f□f,□F,±,lf,□[fh,ª—LCEø,È□ê□#□A,·,x,Ä,lfffBfXfvfCfC,Å OpenGL
,ª□uCEŸ·□<□vf,□[fh,ÅfCf"f_μ,Ü,·□B ,±,lf,□[fh,Å,l□A^Ù,È,éfNf%ofX,l GPU ,ªŽg—
p,³,è,é□ê□#□A,·,x,Ä,lfAfNfefBfu GPU ,ì□Å□—<α'É<@"\fZfbfg,ì,Y,ª OpenGL
fAfvfŠ,É,æ,Å,Å" FŽ` ,³,è□ACEÄ,Ñ□o,³,è,Ü,·□B OpenGL ,lfCf"f_fŠf"fo
fpftfH□[f}f"fX,ì□AfVf"fOf<fffBfXfvfCfC f,□[fh,É"ä,x'½□'x,,E,è,Ü,·□B

- [f}f<f`fffofCfX fpftfH□[f}f"fX f,□[fh] - nView Dualview f,□[fh,ÅfAfNfefBfu
fffBfXfvfCfC,ª 2 ,Å^É□ã,·,é□ê□#□A,Ü,½,í^Ü,È,éfNf%ofX,l NVIDIA GPU fx□[fX
fj□[fh,δŽA□s,μ,Å,ç,é□ê□#,ÉŽg—p,Å,«„Ü,·□B
- f□f,□F,±,lf,□[fh,ª—LCEø,È□ê□#□A,·,x,Ä,lfffBfXfvfCfC,Å OpenGL
,ª□ufpftfH□[f}f"fX□vf,□[fh,ÅfCf"f_μ,Ü,·□B □uCEŸ·□<f,□[fh□v"~—l□A^Ù,È,éfNf%ofX,l GPU
,ªŽg—p,³,è,é□ê□#□A,·,x,Ä,lfAfNfefBfu GPU ,ì□Å□—<α'É<@"\fZfbfg,ì,Y,ª OpenGL
fAfvfŠ,É,æ,Å,Å" FŽ` ,³,è,Ü,·□B fffBfXfvfCfC
fffofCfX,δ□Ø,è'Ö,ì,½,èfXfpf" ,·,é,Æ□A^èŽŽ"l,ÉfCf"f_fŠf"fo,ì%oe<¿,ª□o,é□ê□#,à, ,è,Ü,·,ª□Af
Cf"f_fŠf"fo fpftfH□[f}f"fX,lfXfs□[fh,ì□ACEŸ·□<f,□[fh,æ,è□u'—,□v,É,è,Ü,·□B

OpenGL 'í%žfefNfXf`ff fNf%of“fv“ @ì,đ—LCEø,É,μ,Ü,·B

ufefNfXf`ff fNf%of“fvv,Æ,íAfefNfXf`ff,íf{fffBŠO,É,È,Á,½èè‡,lfefNfXf`ffÀ•W,ì^—•û-
@,đŽw,μ,Ü,·B fGfbfW,ÉfNf%of“fv,·,é,©A,Ü,½,ÍCf[fW“à,ÉfNf%of“fv,Å,«,Ü,·B

fvf%oCf}fš fffBfXfvfCfC,lfrrffl fl[]fo[]fCfC,Æ,μ,Ä fvf%oCf}fš fffBfXfvfCfC,ÅŽw'è,μ,½
%oň“]Šp“x,đ[]AfZjff“f_fš fffBfXfvfCfC,Éšf“fN,μ,Ü,·[]B ,Â,Ü,è[]Afpf“fRf“fgf[]f< fpflf<,Å'!đ,μ,½
%oň“]Šp“x,ª[]Afvf%oCf}fš,“,æ,ÑfZjff“f_fš fffBfXfvfCfC fffofCfX,l—¼•û,É”½%of,³,è,Ü,·[]B

[fY[f€ fRf“fgf[f<] ,íAfcf“f_³,ê,½frfffl,ðŠg’âk¬,Å,«,Ü,·B

fhf[fbvf_fEf“ fffj...[f{f^f“,ðfNfŠfbfN,·,é,Æ[AffBfXfvfCfC,ðŠg’âk¬,Å,«,Ü,·B

- [frfffl f~f%o[] ,íA’l’ð,μ,½fY[f€,ðfrfffl f~f%o[,³fcf“f_³,ê,éZjff“f_fŠ fffBfXfvfCfC,ÉY’è,μ,Ü,·B
- [frfffl fl[foc[fCfC] ,íA’l’ð,μ,½fY[f€,ðAfl[foc[fCfC frfffl,³fcf“f_³,ê,évf%ofCf}fŠ fffBfXfvfCfC,ÉY’è,μ,Ü,·B
- [—¼•û] ,íA’l’ð,μ,½fY[f€,ðfrfffl,³fcf“f_³,ê,évf%ofCf}fŠ,ÆfZjff“f_fŠ fffBfXfvfCfC,ì—¼•û,É“K—p,μ,Ü,·B

[fq][fg fCf“fWfP[f^] CEx[f_fCfAf[fO f{fbfNfX,ð—LCEø,É,μ,Ü,·B
NVIDIA GPU fRfA%o.“x,l,l,²fRfA fXf[f_fEf“è#l,É^è‘v,μ,Ä,ç,éèè#A [fq][fg fCf“fWfP[f^]
f_fCfAf[fO f{fbfNfX,²Aó<μ,“,æ,N“Á’è,l GPU ,Éf_f[fW,ð—^,l,É,ç
,½,ß,ÉŽÀ[s,³,è,½‘€i,ðŽ©“®“l,É•\Žl,μ,Ü,·B

,±,ê,í'ð,μ,½ NVIDIA GPU ,ìjffÆf“fg,ì%o.“x,Å,□B

,±,ê,íA'í'ð,μ,½ NVIDIA GPU ,ðŽæ,è^í,p—ì^æ,ìjffĈf“fg,ì%o.“x,Å,·B ,±,ì%o.“x,íAGPU ,ì<β,-
,É, ,é,»,ì'¼,ì”MĈ¹,É,æ,è'â•,É^Ù,È,è,Ü,·B

%o·“xftfjfbfg (□ŮŽ□,Ü,½,í%oØŽ□) ,đfNfŠfbfN,·,é,Æ□A,±,lfpf|f<,É%o·“x'l,ª•\Ž|,³,é,Ü,·□B

,±,ê,íA%ß”MóÔ,ð-h,®,½,ß,É GPU ,ì¬“x,â’á%º,·,é,Æ,«,ìl,Å,·B

,±,ìl,â GPU fRfA%·“x,Æ^ê’v,µA[fq[fq fCf“fWfP[f^CEx,ð—LCEø,É,·,é...] flfvfVf#f“,â,±
,lfpfj<,Å—LCEø,É,³,ê,é,ÆAf_fCfAf_fO f{fbfNfX,É,æ,èACEx ffbfZ[fW,É%Á,íA
%ß”M,â“Á’è,ì GPU ,Ö,lf_f[fW-hŽ~,l,½,ß,ÉŽÀs,³,ê,½’€i,âŽ©“®“l,É•\Ž!,³,ê,Ü,·B

fVfXfef€ fgfŒfC,ÉfJfŒf“fg,È NVIDIA GPU fRfA%oo.“x,đ•\Ž!,μ,Ü,·□B

,±,ê,í AGP ŠÖ~A<@"\,ÉŠÖ,·,é[]î•ñ,Å,·[]B

,±,lfZfNfVf#f“,íA»‘çE³,ì ID ,ÆfRf“fsf...[f^,lfCf“f{[fh f`fbfvfZfbfg,ì AGP <@”\
,đ'ñ<Ÿ,μ,Ü,·B

,±,ìfZfNfVf#f“,í NVIDIA GPU ,ì AGP <@”\,É,Â,ç,Ä,ìà-¾,Å,·B

,±,lfzfNfVf+f“,í□AfVfXfef€„ÅŽÀ□Ů,ÉŽg—p,·,é AGP <@“\,ìŠT—v,Å,·□B —ñ<L,³,é,é□€-
Ú,í□Af□fCf“f{□[fh f`fbfvfZfbfg,“,æ,Ñ NVIDIA GPU ,É<α'É,È AGP <@“\,Å,·□B

##,±,ìÿ'è,É,æ,èAfof%oftfBfbfNfX fj[h,ìÁ'á AGP fE[fg,ðžè"®,Á'²®,Á,«,Ü,·B
fF,±,ìÿ'è,ð'²®,·,éê#A'Á'è,ìVfXfef€ÿ'è,Á^À'S,Æ"»f,³,ê,Ä,ç
,éÿ'è,æ,è'¬,ç'¬"x,É'²®,·,é,ÆAfvfXfef€,ª*s^À'è,É,È,è,Ü,·B

,±,lf` fFbfN f{fbfNfX,đfjf“,É,·,é,Æ□AAGP □,‘¬□’,«□ž,Ý (FW) ,đ—LÆø,É,Å,«,Ü,·□B

,±,lf` fFbfjN f{fbfNfX,ðfjf“,É,·,é,Æ□AAGP fTfCfhfof“fh fAfhfCEfX (SBA) ,ð—LCEø,É,Å,«,Ü,·□B

,±,lf` fFbfN f{fbfNfX,ðlf“,É,·,é,Æ□A2D fRf}f“fh fofbftf@ fLffbfVf“fO,ð—LCEø,É,Å,«,Ü,·□B

,±,lfjvfjvf#f“,É,æ,è□Aflf...□[,É<-‰oÂ,³,é,é AGP fofX,ì□Å‘å—v<□□”,ð□\$Eä,Å,«,Ü,·□B

,±,ê,ð'í'ð,·,é,Æ□AfvfXfef€Í AGP fofX,ìÅ'å—v<□□",É□‡,í,¹,Ä□Å□,,ìÝ'è,ð'í'ð,Å,«,Ü,·□B

,±,ê,đ'ı'đ,·,é,Æ□AAGP fofX,ì□Å'â—v<□□",đŽw'è,Å,«,Ü,·□B

,±,lfpfjf<,ÅŽw'è,³,ê,^{1/2} AGP □Ý'è,ðfefXfg,Å,«,Ü,·□B ,±
,lfefXfg,í□A'I'ð,μ,^{1/2}□Ý'è,É,æ,Á,Ä•s^À'è,É,È,Á,^{1/2},è□AfpftfH□[f}f"jX,É-â'è,^a□¶,μ,È,ç
,©,ðCE^'è,μ,Ü,·□B

fXf%ofCf_[][,đ"®,©,;,Æ[]ADirect3D ,Æ OpenGL fAfvfŠ,ÅŽg—
 p,³,è,éfAf"f fGfŠfAfVf"fo,đ[]Y'è,Å,«,Ü,·[]B fAf"f fGfŠfAfVf"fo,í[]A3D flfufWfFfNfg,lfGfbfW
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 p,Å,«,é[]Å"á"l,Ü,Å"l"đ,Å,«,Ü,·[]B

- **flft** [] 3D fAfvfŠ,ÅfAf"f fGfCfŠfAfX,ª-³CEø,É,È,è,Ü,·[]B fAfvfŠ,Å[]Å[],,lfpftfH[][f]f"fX,ª•K—
 v,É[]è[]±,í[]A,±,lfifvfVf#f",đ"l"đ,μ,Ü,·[]B
- **2x** [] fAf"f fGfCfŠfAfX,ª 2x f,[][fh,Å—LCEø,É,È,è,Ü,·[]B 3D fAfvfŠ,ì
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- **2xQ** [] GeForce GPU ftf@f~fŠ[][,Å"Á<-Žæ"¾4[]í,Ý,lfAf"f fGfCfŠfAfX<Z[]p,ªŽg—p,Å,«,Ü,·[]B
 Quincunx fAf"f fGfCfŠfAfX,Å,í[]A2x fAf"f fGfŠfAfX f,[][fh,Æ""™",lfpftfH[][f]f"fX,Æ 4x
 f,[][fh,Æ""™",ì%ooæŽ¿,ª"¾4,ç,è,Ü,·[]B
- **4x** [] fAf"f fGfCfŠfAfX,ª 4x f,[][fh,Å—LCEø,É,È,è,Ü,·[]B 3D fAfvfŠ,Å,æ,è,æ,ç
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- **4xG** [] fAf"f fGfCfŠfAfX,ª 4x[]A9 f^fbfv (fKfEfX) f,[][fh,Å—LCEø,É,È,è,Ü,·[]B 3D
 fAfvfŠ,Å[],ç%ooæŽ¿,ª"¾4,ç,è,Ü,·,ª[]AfpftfH[][f]f"fX,í"½[]"á%oo°,μ,Ü,·[]B
- **4xS** [] fAf"f fGfCfŠfAfX,ª 4xS f,[][fh,Å—LCEø,É,È,è,Ü,·[]B ,±,lf,[][fh,Å,ì%ooæŽ¿,í 4x
 f,[][fh,æ,è[],,É,è,Ü,·,ª[]A3D fAfvfŠ,lfpftfH[][f]f"fX,ª"½[]"¹,É,í,è,Ü,·[]B ,±,ì[]Y'è,í Direct3D
 fAfvfŠ,Å,ì,YCEø%oÉ,đ"Šö,μ,Ü,·[]B
- **6xS** [] fAf"f fGfCfŠfAfX,ª 6xS f,[][fh,Å—LCEø,É,È,è,Ü,·[]B ,±,lf,[][fh,Å,í[]A4xS f,[][fh,æ,è—
 ÇŽ¿,ì%ooæŽ¿,Æ,É,è,Ü,·[]B ,±,ì[]Y'è,í Direct3D fAfvfŠ,Å,ì,YCEø%oÉ,đ"Šö,μ,Ü,·[]B
- **8x** [] fAf"f fGfCfŠfAfX,ª 8x f,[][fh,Å—LCEø,É,È,è,Ü,·[]B ,±,lf,[][fh,Å,í[]ADirect3D fAfvfŠ,ì
 %ooæŽ¿,ª 6xS f,[][fh,æ,è[]A,Ü,½[]AOpenGL fAfvfŠ,ì%ooæŽ¿,ª 4x f,[][fh,æ,è—
 ÇŽ¿,É,È,è,Ü,·[]B
- **16x** [] fAf"f fGfCfŠfAfX,ª 16x f,[][fh,Å—LCEø,É,È,è,Ü,·[]B ,±,lf,[][fh,Å,í[]A8xS f,[][fh,æ,è
 —ÇŽ¿,ì%ooæŽ¿,Æ,É,è,Ü,·[]B

f[]f,[]F[]f[]v[]f[]#[],É,æ,Á,Ä,lfn[][fh,ª[]\$CEÀ,³,èŽg—p,Å,«,Ü,¹,ñ[]B []Ü[]×,í NVIDIA f[]f[]f[]U[]
 fKfCfh,đŽQ[]Æ,μ,Ä,,¾4,³,ç[]B

fXf%ofCf_[][,đ" ®, ©, ,Æ[]A%œŽž,đĀü[]ă,³,¹,é^Ù•û[]«ftfBf<f^fŠf"fO,đ[]Ý'è,Å,«,Ü,·[]B ,±
,lfvfVf}f",đ—LĀø,É,·,é,Æ[]A%œŽž,ÍĀü[]ă,μ,Û,·,ª[]AfpftfH[][f]}f"FX,ª¹½[]'á%œ,μ,Û,·[]B

- **flft** [] ^Ù•û[]«ftfBf<f^fŠf"fO,đ-³Āø,É,μ,Û,·[]B
- **1x** [] []Å[],,lfpftfH[][f]}f"FX,ª³⁄⁴,ç,é,Û,·[]B
- **2x** [] %œŽž,ÍĀü[]ă,μ,Û,·,ª[]AfpftfH[][f]}f"FX,ª¹½[]'á%œ,μ,Û,·[]B
- **4x** - %œŽž,ÍĀü[]ă,μ,Û,·,ª[]AfpftfH[][f]}f"FX,ª¹½[]'á%œ,μ,Û,·[]B
- **8x** - []Å[],,l%œŽž,ª³⁄⁴,ç,é,Û,·[]B

f[]f,[]FlfvfVf}f",É,æ,Á,Ä,lfn[][fh,ª[]SĀÀ,³,êŽg—p,Å,«,Ü,¹,ñ[]B []Ú[]x,Í NVIDIA ft[][fU[]
fKfCfh,đŽQ[]Æ,μ,Ä,,³⁄⁴,³,ç[]B

Direct3D fAfvfŠ,ÅŽg—p,·,éfŠftfEfbfVf... fCE[]fg,đ'l'đ,Å,«,é,æ,α,É,μ,Ü,·B ,±,lfvfvf#f",a—
LCEø,Èèè#[]A%º,lfŠfXfg f{fbfNfX,í-³CEø,Å,·B

fhf%ofCfo,É,æ,è□ADirect3D fAfvfŠ,ljŠftfEfbfVf... fCE□[fg,đ•ï□X,Å,«,é,æ,α,É,μ,Ü,·□B ,±
,lfIfvJf#f“,²—LCEø,È□ê□#□A%oo°,lfŠfXfg f{fbfNfX,à—LCEø,Å,·□B

,±,lfŠfXfg f{fbfNfX,Å,íAŠe%øð'œ"x,lfŠftfCEfbfVf... fCE[fg,ðCEÂ•Ê,É•ïX,Å,«,Ü,·B

Šù'è,Å,íAfAfvfŠ,lfŠftfCEfbfVf... fCE[fg,ªŽg—p,³,ê,Ü,·B

,»,'¼,'l,ÉY'è,µ,½ê#AŠftfCEfbfVf... fCE[fg,íftf<fXfNfŠ[f“ Direct3D fAfvfŠ—
p,'l,ÉY'è,³,ê,Ü,·B

fŠftfCEfbfVf... fCE[fg,ð•ïX,·,é,É,í

1. [fŠftfCEfbfVf...fCE[fg] fJf%øf€“à,íAŠftfCEfbfVf... fCE[fg,ð•ïX,·,é%øð'œ"x,^a, ,é[s,Å
[**Šù'è'l**] ,ðfNfŠfbfN,µ,Ü,·B 'l,lfŠfXfg f{fbfNfX,^a•\Žl,³,ê,Ü,·B
2. [fŠftfCEfbfVf... fCE[fg] ,ð'l'ð,µA["**K—p,·,é**] ,ðfNfŠfbfN,µ,Ü,·B

□,“x,É□Ú□×,ÈfRf“fef“fc,đŠg‘å,μ,Ä%œŽ¿,đ□æ%oS%»„μ,Ü,·□B

fojbfefŠ,ì'îfpftfH[f}f“fX“d—íÁ“i—Ê,ð'²®,μ,Ü,·B

A/C "dCE¹, ì'îpftfH[]f}f"fx"d—í[]Á"i—Ê, ð'²[]®, µ, Ü, ·[]B

CE»ŸŽg—p't,ì“dCE¹,Å.□B

fj fCEf "fg, ì'îfpftjH[]f}f" fX" dCE'fCEfxf., Å, ·B

ffCEf“fg,ÈfofbfefŠ,ì[]“dfCEfxf<,Å,·□B

TV %œ-ÊfTfCfY fXf%ofCf_[] ,đŽg—p,μ,ÄAfefCEfr,ì%œ-ÊfTfCfY,đ'²@,Å,«,Ü,·B
,½,Æ,î,îAfefCEfr%œ-Ê,É•,lf{[]f_³•\Ž,³,ê,Á,ç,éê#AfXf%ofCf_[] ,đŽg—p,μ,ÄfefCEfr%œ-
Ê,đŠg'â,μAf{[]f_ ,đœ<Ž,μ,Ü,·B

f[]f,[]F^ê"Ô%E'κ,ìÝ'è (fXf%ofCf_[] ,đ%E'[Ü,Å"@,©,·) ,íADVD •\Ž,lfjvfVf+f",Å,·B

fffWf^f<<P“x,đŽg—p,·,é,Æ□A%œ‘œ,ì•^a—f,Æ^{-3/4}“x,đ□§CEä,Å,«,é,ì,Å□A,æ,è^{-3/4},é,-
fNfŠfA,Èfrfffi□Å□¶%œ‘œ,đŽÀCE»,Å,«,Ü,·□B

%f%œ (frffl%œ'œ) ,É,æ,Á,Ä,ÍAÄ¶†,É^Ã,Œ©,!,é,à,ì,^a, ,è,Ü,·B [fKf"f}] 'l,ð
%oÁ,·,é,Æ%œ'œ,^{a-3/4},é,,È,è,Ü,·B

,±,ìfpfìf<,íAjjfXf^f€%œ'œ%ð'œ"x,ði□- /Žg—p,·,é<@"\,Å,·□B

f.□[fh•Ò□W—ì^æ,Å“ü—í,μ,½ffXf^f€ f.□[fh,ð [ffXf^f€ f.□[fh] fŠfXfg,É'Ç%Á,Å,«,Ü,·□B

[ffXf^f€ f,□[fh] fŠfXfg,Å□;‘δ,μ,½fGf“fgfŠ,δ•i□X,Å,«,Ü,·□B

fjXf^f}fCfY,μ,½f,□[fh,ðf,□[fh•i□X—î^æ,ÅfefXfg,Å,«,Ü,·□B ,±
,İfefXfg,í'í'ð,μ,½fffBfXfvfÇfC,Åf,□[fh,î□Y'è,μ□A□³,μ,□Y'è,³,ê,Ä,ç,é,©,Ç,α,©ÆY□Ø,μ,Ü,·□B

[ffXf^f€ f,□[fh] fŠfXfg,Å□;‘δ,μ,½fGf“fgfŠ,ð□œ<Ž,Å,«,Ü,·□B

,±,ìf{fbfNfX,ð'íð,·,é,Æ□A'í'ð,μ,½fffBfXfvfCfC,É□A'É□í,ì Windows fffXfNfgfbfv
f,□[fh,æ,è□→,³,çf,□[fh,ð□Ý'è,Å,«,Ü,·□B ,±,ìC<%oÉ□AfffBfXfvfCfC<@"\\,ÉŠî,Å,«□AfffBfXfvfCfC,ì
%oÅŽ<fGfŠfA,ðŠg'â•\Žì,μ,½,è□AfffXfNfgfbfv,Å%oñ"]],Å,«,Ü,·□B

fjXf^f}fCfY,μ,½•Žjf,[]fh,ì%oi,ì',³ (,Ü,½,í•[],ìsfNfZf<[]") ,đ'²[]@,μ,Ü,·[]B

ffXf^}fCfY,μ,½•Žjf,[]fh,ìc,ì'•,³ (,Ü,½,í,³,ìsfNfZf<") ,đ'²[]®,μ,Ü,·[]B

fjXf^}fCfY,μ,½•Žjf,[]fh,ìc,}ŠftfEfbfVf... fE[]fg,đ'®μ,Ü,·B

fjXf^f}fCfY,μ,½•\Ž|f,[]fh,i•\Ž|,³,ê,½fjf%o[][" (,¨,æ,Ñ[]Abpp ,Ü,½,ÍšefsfNfZf<“-
,½,è,lfjfbfg[]) ,đ'²[]®,μ,Ü,·[]B

• Windows • Ž, Ā, ō, ō, μ Af, • Ō W— î æ, Å Xf^ [fg f]fCf“fg, Æ, μ, Ä Žg—
p, μ, Ü, · B

«»Ÿg—p,Å,«,éjfxf^f}fCfY,μ,½•\Žif,□[fh,đ^ê—•\Ž!,μ,Ü,·□B

Œ»ŸŽg—p,Å,«,é•Žjf,[]fh,ÅA'I'δ,μ,½fffBfXfvfŒfC,ÉŠÖ~A,μ,½“Á'è,ì•\
ŽjfffofCfX,ÅŸ'è,Å,«,é,à,ì,ð^è—•\Žì,μ,Û,·,±,ì^è—,É,íA,±,ìfffBfXfvfŒfC,ÅŽÀŸÛ,É•\
Žì,Å,«,éf,[]fhA,“,æ,Ñ [Windows fffBfXfvfŒfC fvf[]pfefBŸ'è] fpflf<,ÅŸ'è,Å,«,é,±
,ê,ç,ìf,[]fh,æ,è¬,³,çê[]‡,à, .éf,[]fh,ì,Ÿ,ªŠÛ,Û,ê,Å,ç,Û,·[]B

,±,ìf{fbfNfX,đ'í'đ,·,é,Æ□A_{TV} ,Åfrffl,ìfRf“fef“fc,đ•\Ž|,·,é□ê□‡,ì□Å“K□Ý'è,ª%oÅ“\,Å,·□B

fjfEfg,ìc%oi"ä,ð^ÛŽ,·,éf,fjf^,lf^fCf~f"fo,ð'²® ,μ,Û,·B

ClearView fffBfXfjvfCefCŸ'è,lfOf%oftfBfjbfN,đ•\Ž!,μ,Ü,·B f,fjf^
fCf[]fW,đfNfŠfjbfN,μ,Ä^Ú"® ,μA•\Ž!,i[]‡"Ô,đÄ'²[]®,μ,Ü,·B

,±,lfjvfVf#f“,Å•\Ž!□Ý'è,ð'ı'ð,μ,Ü,·□B ŽŸ,lfjvfVf#f“,@%ooÂ“\,Å,·□B

§ 1 x 2

§ 1 x 3

§ 1 x 4

§ 2 x 2

§ 2 x 1

§ 3 x 1

§ 4 x 1

—D [æffBfXfvfEfC,Æ,μ,Äž—p,·,éffBfXfvfEfC,đ'ı'đ,μ,Ü,·]B —D [æffBfXfvfEfC,ıA•K—v,É
%ž,¶A [—D [æffBfXfvfEfC,ıŠftfEfbfVf...] fXf%ofCf_ [,đžg—p,μ,ÁfŠftfEfbfVf...,Á,«,Ü,·]B

f}fEfX,Å—DæffBfXfvfCfC,đ'ı'đ,μ,Ü,·B fŠtfCfVf...,·,éê#ACE»Ýfjlf\ f<ª, ,éffBfXfvfCfC,ª—DæffBfXfvfCfC,Æ,È,è,Ù,·B

,±,lfXf%ofCf_[][,đŽg—p,μ,Ä□A”ñ—D□æfffBfXfvfCefC,Éî,μ□A—D□æfffBfXfvfCefC,đfŠftfCefbVf...
,·,é%ñ□”,đŽw’è,μ,Ü,·□B

§ 1x ,í□A1 fTfCfNf<,Å 1 “xfffBfXfvfCefC,afŠftfCefbVf...,³,ê,Ü,·□B

§ 2x ,í□A1 fTfCfNf<,Å 2 “xfffBfXfvfCefC,afŠftfCefbVf...,³,ê,Ü,·□B”ñ—D□æfffBfXfvfCefC,í
1 fTfCfNf<,Å 1 “x,μ,©fŠftfCefbVf...,³,ê,Ü,¹,ñ□B

§ 3x ,í□A1 fTfCfNf<,Å 1 “xfffBfXfvfCefC,afŠftfCefbVf...,³,ê,Ü,·□B

f p f t f H [f } f " f X f N f [f b f N [Y ' è , í [A 3 D f A f v f Š , ì Ž À [s ' ¬ " x , ð [Y ' è , μ , Ü , · [B

,±,ìuŠÔ,É^À'S,Æl,l,ç,ê,éÅ'âfNf[]fbfN[]Ý'è,ðCE^'è,μ,Û,·B Cp'±"l,ÉŽÀ[]s,·,éê[]#[]A,±,±
,ÅCE^'è,·,éÅ'âfNf[]fbfN[]Ý'è,Í^U,È,è[]AfVfXfef€,²Ž©"®CEY[]ofXfgfCEfX fefXfg,ð,Ç,ì,æ,α,É^—
[],·,é,©,É^È'¶,μ,Û,·B

fXfpf“ f,[]fh,Åf[]fo[]fCfC,ð[]¬,Å,«,Ü,·B (fVfXfef€É,æ,Á,Ä,Í[]AfXfpf“ f,[]fh,a—
LCEø,É,È,Á,Ä,ç,é,Æf[]fo[]fCfC,ð[]¬,Å,«,È,ç[]é[]±,à,è,Ü,·B,»,i[]é[]±[]A,±
,lfvfjvfj±“,Å•i[]X,Å,«,Ü,·B)

□u,±,łfsf“,đ%oŸ,·□v,Æ,ç,ꝑfOf%oftfBfbfNfX,Í□Afsf“,đ%oŸ,·Æf|fbfvfAfbfv f□fjf...□[,ªŠJ,,±
,Æ,đ^Ó-i,μ,Ä,ç,Ü,·□B%oŸ,·,ł,đŽ~,ß,é,Æ□AflfbfvfAfbfv f□fjf...□[.ÍŽ©“®“l,É•Â,¶□Afrf“fgf□□[f<
fpfjf< fEfBf“fhfE,ªftfH□[fjfX,đŽ,ꝑ,Æ□A□Á“xŠJ,«,Ü,·□B

"C^Ó,ìffBfXfvfĈfC fffofCfX,ìfpf" fXfLfff"‰đ'œ"x,đŽè" ©,Å'Í'đ,Å,«,Ü,·□B fpf"
fXfLfff"‰đ'œ"x,đ'Í'đ,·,é,Æ□A‰Å"\,Éèè±□Afhf‰fCfo,Í"C^Ó,ì‰đ'œ"x,Åfpf" fXfLfff"
f,□[fh,É,È,è,Ü,·□B

f□f,□F,±,ì□Ý'è,ÍfvfXfef€,đ□Ä<N" ©,·,é,Ü,Å•ÜŽ□,³,è,Ü,·□B

f,ffj^ (fffBfXfvfCfC fffofCfX) ,qflfCfefBfu,ì%ñ"],đfTf|[fg,·,éê±A,±,lf`fFbfN
f{fbfNfX,đflf",É,μ,Û,·B

f□f,□FfffBfXfvfCfC fffofCfX, qflfCfefBfu,ì%ñ"],đfTf|[fg,μ,È,çê±A,±,lf`fFbfN
f{fbfNfX,đflf",É,·,é,Æ[A%ñ"]<@"\,ª-³Cø,É,È,è,Û,·B

,±,lf`fFfbfN f{fbfNfX,ðf|f“,É,·,é,Æ□AfAfvfš,É,æ,è'l'ð,³,ê,é 3D
fAfvfš,í^U•ú□«□Ý'è,ð•í□X,Å,«,Ü,·□B

,±,lf`fFbfN f{fbfNfX,ðlf“,É,·,é,Æ□Af_fuf<fXfLfff“,^a—LCEø,É,È,è,Û,·□B

§ f_fuf<fXfLfff“,í□Aftf<fXfNfš□[f“,lfrrffl,ÆfRf“fsf...□[f^ fQ□[f€,Å□Å,à—L—p,ÈfCf□□[fW
fNfHfšfefB,ð’á%øð’œ“x,Å’å•□,ÉCEü□ă,Å,«,Û,·□B

§ f_fuf< fXfLfff“,Å,í□Af,fff^,lfof“fh•□,ð 2 ”{,É,μ,Û,·□B f_fuf<fXfLfff“
f,□[fh,^{af},fff^,ìCEÅSE,ð’,!,½□ê□#□A□,%øð’œ“x,ÆfšftfCEfbfVf... fCE□[fg—p,lfhf
%ofCfo,íZ©“@“l,É•W□€f,□[fh,É-ß,è,Û,·□B

fTf|[]fg,³,ê,é,.,x,Ä,ìF'²,ďž,ÂjffXf^f€ f,[]fh,đ•i[]"Ç%Á,Å,«,é,æ,ꝛ,É,μ,Ü,·B

fTf|[]fg,³,ê,é,.,x,Ä,lfŠftfEfbfvf... fE[]fg,đŽ[],ÂfjXf^f€ f,[]fh,đ•i[]'Ç%oÁ,Å,«,é,æ,x
,É,μ,Ů,·B

f,ffj^ (fffBfXfjvfCefC fffofCfX) ,ÉŽg—p,Å,«,é%œ'œ%đ'œ"x,ìÝ'è,đ•Ž,μ,Û,·B fXf
%ofCf_[][,đ" ®, ©,μ,ÄA^Û,É,é%œ'œ%đ'œ"x,đ'l'đ,μ,Û,·B

Œ»Ÿ'İ'đ,³,ê,Ä,ç,é,ffj^ (ffBfXfvfŒfC fffofCfX) ,l%œ'œ%đ'œ"x,ÅŽg—p,Å,«,éff
%Ÿ'è,đ•Ž,μ,Û,·B fRf"fgf[f<,đfNfSfbfN,μ,ÄA^Û,È,éff%Ÿ'è,đ'İ'đ,μ,Û,·B

,±,ê,Û,Å,É"□¶,μ,ÄfffofCfX fhf%oofCfo,É,æ,èf□fO,³,ê,½"ÁŽê,È NVIDIA GPU fCxf"fg,ð^ê—•\
Ž,μ,Û,·□B ,±,ê,ç,lfCxf"fg,ðfCxf"fg f□fO frf...□[fA,Å,à\Ž,Å,<,Û,·□B

OpenGL , Åf[]fo[]fCfC,ÉŽg—p,·,éfsfNfZf< ftfH[]f}fbfg,ðŽw'è,μ,Ä,,¾,³,ç[]B

- **fjf%[][fCf“fffbfNfX fi[]fo[]fCfC (8bpp) - 8 frfbfg,ìpfCfbfgfi[]fo[]fCfC,ðŽg—p,·,é[]B**
- **RGB fi[]fo[]fCfC (RGB555 ftfH[]f}fbfg) - 16 frfbfg (RGB555) ,ìfi[]fo[]fCfC,ðŽg—p,·,é[]B**
- **fjf%[][fCf“fffbfNfX (8bpp) ,Æ RGB555 ftfH[]f}fbfg - fAfvfŠ,Å 8 frfbfg fpcfCfbfg,Û,½,í 16 frfbfg (RGB555) fi[]fo[]fCfC,ì,ç,¿,ç,©,ðŽg—p,·,é[]B**

f[]f,[]Ffi[]fo[]fCfC,í[]Afif“f{[]fh fOf%ftfBfbfNfX f[]f,š,ð'[]Ý,·,é•K—v,ª, ,è,Û,·[]B,Û,½[]A %øð'œ“x,É,æ,Á,Ä,íXfefCfI•\Žì,ðŽg—p,Å,«,É,ç[]ê[]#,ª, ,è,Û,·[]B fi[]fo[]fCfC<@“\ ,ÉfAfNfZfX,Å,«,É,ç[]ê[]#[]A%øð'œ“x,Û,½,í[]F[]”,ð[]-,³,ç'l,É,·,é,ÆfAfNfZfX,Å,«,Û,·[]B

fAf`f`fGfCfŠfAfVfXs,lfKf`f}C³,ð—LCEø,É,μ,Ü,·B
fXf€[fY,Ès,ðfEf`f_fŠf`fO,·,éè#AfKf`f}C³,μ,½fAf`f`fGfCfŠfAfVfXs,ªo—
lfffofCfX,lF'²<@`\\,l•ªZU,ð^—,μ,Ü,·B

,±,lfVfXfef€,,đf}fXf^,Æ,μ,Ü,·□B ,±,lfifvfVf#f“,a—LCEø,Èê±□AfOf%oftfBfbfNfX
f□[fh,í□Aftf€□[f€ f□fbfN“Šú□M□+,đ□¶□-,·,éf}fXf^,Æ,μ,ÁŽg—p,³,ê,Ü,·□B

—š,žř,ěfGfbfW□B ,±,ìfjvfVf†f“,ª—LCEø,Èêê#□A—š,žř,ěfGfbfW,ª“~ŠúŒŸ□o,ÉŽg—
p,ª,é,Ů,·□B

#—§,¿%ºº,èfGfbfW□B ,±,lfvfVf#f“,ª—LCEø,Èê#□A—§,¿%ºº,ª,èfGfbfW,ª“~ŠúŒÿ□o,ÉŽg—
p,ª,ê,Ú,·□B

“Šú'x%o,, (f~fNf□•b) □B ,±,lfjfvfVf†f“ ,af}fXf^ f,□[fh,ĀŽg—p,³,é,é□ê□#□AftfĀ□[f€ f□fbfN
fj□[fh,ā□A” Šúfpf<fX,đ□¶□□¬,·,é,Ů,Ā'Ô,ĀŽžŠÔ (f~fNf□•b'P^Ê) ,đŽw'è,μ,Ů,·□B

fŠtfĒfbvf... (Hz) □B f}fXf^ f,□[fh,ìĒ#□A,±,ê,íOf%oftfBfbfNfX fj□[fh,°□o—
í"Šúpf·fX,ð□¶□¬,·,éĒ□[fg (Hz) ,Å,·□B

“Šú,ÆÚ’±fXfe[]f^fX[]B ,±,ê,ç,lfOf%oftfBfbfNfX,Í[]Aftf[]f€f[]fbfN
 f[]f[]fh,ì[]E»[]Ý,lfXfe[]f^fX,ð•\Ž!,μ,Û,·[]B,»,ê,¼,ê,ì[]à-¾,í%°<L,ì,Æ,“,è,Å,·[]B

- “Šú[]€”öš®—¹ - GPU ,©,ç[]o—í,³,ê,é“Šú[]M[]+[]B
- “ü’Ö,ì[]€”öš®—¹ - GPU ŠÔ,ÅŽæ,è[]Eð,í,·[]M[]+,Å[]Aff[]fW[][] f`fF[]f“,É, ,é,·,×,Ä,ì
GPU ,ì“Šú,ÉŽg—p,³,ê,Û,·[]B
- f^fCf~f“fo - f^fCf~f“fo“Šúfrfbfg,Æ,Í[]Aftf[]f€ f[]fbfN f[]f[]fg[]Eo—
R,Åf^fCf~f“fo“Šú,^as,í,ê,Ä,ç,é,±,Æ,ðŽ!,μ,Û,·[]B
- fXfef[]f“Šú - VGA f[]f[]fh,©,ç,ì“Šú[]Bftf[]f€
f[]fbfN,Û,½,ífnf[]fX“Šú,^aÈ,ç[]è[]#[]A,±,ì“Šú,^aŽg—p,³,ê,Û,·[]B
- In - ftf[]f€ f[]fbfN,ì“Šú,ÉŽg—p,³,ê,é“ü—ÍfRf[]fNf^[]B
- Out - ftf[]f€ f[]fbfN,ì“Šú,ÉŽg—p,³,ê,é“ü—ÍfRf[]fNf^[]B
- fnf[]fX“Šú - BNC fRf[]fNf^,©,çŽó[]M,·,é“Šú[]M[]+[]B

Ú'±fXfgB “ŠúfVf#f”,đŸđ,μÚ'±,đŸØ,Å,«A CE<%oÊ,ÆCE»Ý,}Xfe[f^fX,ª•\
Z,³,é,Ú,·B

fOf%oftfBfbfNfX fj[]fh,đ'²[]®,μ,Ä[]Å“Kftf[]f€
,i"~Šú[]Ý'è,đ[]s,x^ê~A,i"à•"fefXfg,đŽÀ[]s,Å,«,Ü,·[]B €<%oÊ,Æ[]»[]Ý,ìfXfe[]f^fX,a•\Ž|,³,è,Ü,·[]B

ŠÖ~Af,fjf^ (fffBfXfvfCfC fffofCfX) ,Ü,½,Í,»,'¼,}fffBfXfvfCfC fffofCfX,đŽ~•Ê,Å,«,Ü,·□B

fŠXfg f{fbfNfX,đfNfŠfbfN,·,é,Æ□AfI□[fo□[fCfC frffl,đ•\Ž|,·,éfffBfXfvfCfC,É,æ,è□Afvf
%ofCf}fŠ,Ü,½,lfZfjf“f_fŠ fffBfXfvfCfC,ì,ç,ì,ç,©,đ'!đ,Å,«,Ü,·□B

,±,lfjvfjvfj#f“,đŽg—p,μ,Ä□AfffXfNfgjbfv,đ•\Ž|,.,éfffBfXfjvfĚfC fyfA,đ'1'đ,Å,«,Ü,·□B 'æ 1
,lfAfCfRf“,lfvf%oofCf}fŠ fffBfXfjvfĚfC,đŽ|,μ□A'æ 2 ,lfAfCfRf“,lfZjff“f_fŠ
fffBfXfjvfĚfC,đŽ|,μ,Ü,·□B ,±,lfŠfXfg,É,í□A^ê□□,ÉŽg—p,Å,«,éfffBfXfjvfĚfC fyfA,a,.,x,Ä•\
Ž|,³,ê,Ü,·□B

,±,İfİfvfVf#f“,đŽg—p,μ,Ä□AfffXfNfgfbfv,İ•\Ž!•û-@,đ'l'đ,Å,«,Ü,·□B

§ **fVf“fOf< fffBfXfvfCefC**,Í□AfffXfNfgfbfv,đfvfŠfCf}fŠ fffBfXfvfCefC,Å,İ,Ý•\Ž!,μ,Ü,·□B

§ **Dualview** ,Í□A2 ,Â,İfffBfXfvfCefC,Å 1 ,Â,,Â^ù,È,éfffXfNfgfbfv,đ•\Ž!,μ,Ü,·□B

§ **fNf□□lf“**,Í□A2 ,Â,İfffBfXfvfCefC,Å““,İfffXfNfgfbfv,đ•i□»,μ,Ü,·□B

§ **□...•½fXfpf“**,Í□A2 ,Â,İfffBfXfvfCefC,Å□A1 ,Â,İfffXfNfgfbfv,đ□...•½,É□L,Î,μ,Ä•\Ž!,μ,Ü,·□B

§ **□,'¼fXfpf“**,Í□A2 ,Â,İfffBfXfvfCefC,Å□A1 ,Â,İfffXfNfgfbfv,đ□,'¼,É□L,Î,μ,Ä•\Ž!,μ,Ü,·□B

fffXfNfgfbfv fl[]fo[]f%oofbfv,ð[]AnView fffBfXfvfCfC'S'ì,É[]...•½,Ü,½,Í[],'¼fXfpf" f,[]fh,Å—
LCEø,É,µ,Ü,·[]B ,±,lfjvfVf+f",ðŽg—p,·,é,Æ[]A•j[]",lfffBfXfvfCfC,ðŽg—p,µ,Å 1
,Å,lfffXfNfgfbfv,ðfXfpf" f,[]fh,ÅCE`[]¬,·,é[]ê[]#[]AfffBfXfvfCfC fCf[][]fW,i^ê•",ð—
×,lfffBfXfvfCfC,lfGfbfW%oo^,ç,ÉCEJ,è•Ô,µ•Z!,Å,«,Ü,·[]B

□...•½fXfpf“ f,□[fh,ÅffXfNfgfbfv fI□[fo□[f%ofbfv,ðŽg—p,·,é□ê□#□AfI□[fo□[f%ofbfv,·,é□...
•½fsfNfZf<□”,ð“Á’è,μ,Ú,·□B

□, '¼fXfjf" f, □lfh. ÅfffXfNfgfbfv fl□lf□lf%fbfv, ðŽg—p, ·, é□ê□#□Afl□lf□lf
%fbfv, ·, é□, '¼fsfNfZf<□", ð"Á'è, μ, Û, ·□B

—\’afufCEf“fh,đufvf□fWfFfNf^ fx□lfX□v,łffBfXfvfCEfC’S’ì,Å—LCEø,É,μ,Û,·□B ,±,łfłvfVf#f“,đŽg
—p,·,é,Æ□A•i□”,łvf□fWfFfNf^fx□lfX,łffofCfX,©,ç,ì□o—í,af□lf□lf%ofbfv,·,é□Û,É”□ł,·,é<P“x,ì
%oe<¿,đ•â□³,μ,Ä□A1 ,Â,łV□lf€fCEfX,ÈffBfXfvfCEfC fCf□□lfW,đCE`□¬,Â,«,Û,·□B

—\’afufŒf“fh,ÉŠÜ,þffBfXfvfŒfC fGfbfW,ð‘l’ð,·,é,É,í□A%œ-Ê,}fGfbfW%o^,ç,É, ,é-
î^ó{f^f“,ðfNfŠfbfN,μ,Û,·□B

□...•½ffBfXfvfƇfC fGfbfW,©,ç□A—\’afufƇf“fh,ÅŽg—p,·,éfsfNfZf·□”,đŽw’è,μ,Û,·□B

fufCEf“fh,μ,½...•½fffBfXfvfCEfC fGfbfW%o^,ç,ÉA...•½f<f}'l,ð“±“ü,.,é,½,ß,ÉŽg—p,.,é•ï
%oo»“x,lff[f<flft,ð“Á’è,μ,Û,·B

•ï^æF0 255 fsfNfZf<B ‘å,«,çf[f<flft,ðŽg—p,.,é,ÆAfffBfXfvfCEfC fGfbfW%o^,ç
,ÉCE©,!,éfv[f€,æ,μAfffBfXfvfCEfC,l@ç,æŠÉ’f%o»,³,ê,Û,·,æA’½%oæŽ,æ¹,È,í,ê,é%oÂ\
ç,æ,è,Û,·B

fufŒf“fh,μ,½□...•½fffBfXfvfŒfC fGfbfW,ì-Ú•Wf<f}’l,đ“Á’è,μ,Ü,·□B

•î^æ□F0 □` 255 fsfNfZf<□B Žw’è,μ,½□”l,â’â,«,ç,Ù,Ç□AfufŒf“fh,μ,½fGfbfW,Å,ÏCf□□[fW,â-
¾,é,,È,è,Ü,·□B

□, '¼ffBfXfvfƐfC fGfbfW, ©, ç□A—\‘@fufƐf“fh, ÅŽg—p, ·, éfsfNfZf<□”, đŽw’è, μ, Ü, ·□B

fufCEf“fh,μ,½,¼fffBfXfvfCEfC fGfbfW%oo^,ç,ÉA,¼f<f}’l,ð“±“ü,·,é,½,ß,ÉŽg—p,·,é•ï
%oo»“x,lff[f<flft,ð“A’è,μ,Ü,·B

•ï^æF0 255 fsfNfZf<B ‘å,«,çf[f<flft,ðŽg—p,·,é,ÆAfffBfXfvfCEfC fGfbfW%oo^,ç
,É©,!,éfv[f€,æ,μAfffBfXfvfCEfC,ì®ç,ŠÉ’f%oo»,³,ê,Ü,·,æA’½%ooæŽ,¹,È,í,ê,é%oÂ\
ç,æ,è,Ü,·B

fufŒf“fh,μ,½,¼fffBfXfvfŒfC fGfbfW,ì-Ú•Wf<f}’l,đ“Á’è,μ,Ü,·B

•î^æF0 255 fsfNfZf<B Žw’è,μ,½“’l,â’â,«,ç,Ù,ÇAfufŒf“fh,μ,½fGfbfW,Å,ÏCf[]fW,â-
¾,é,,Ë,è,Ü,·B

f_fCfAf□fO f{fbfNfX, ©, ç□AfffXfNfgfbfv fl□[fo□[f%°fbfv,Æ
—\’afufCEf“fh□Y’è, ðftf@fCf<, ÉfGfNfXf|□[fg, μ, Ü, ·□B

ftf@fCf<, ©,ç□AfffXfNfgfbfv f□[fo□[f%ofbv,Æ—\’afufCEf“fh□Ý’è,ðfCf“f□[fg,μ□Af_fCfAf□fO
f{fbfNfX,É,±,ê,ç,ì□Ý’è,ð”z’u,μ,Û,·□B

frfffl f~fLfvf“fO fCef“f_f%o fTf|[]fg,ðŽÀ□s,μ,Ü,·□B ‘l’ð,μ,½ftf<fXfNfŠ□[f“ fffBfXfvfCefC
fffofCfX,Éftf<fXfNfŠ□[f“ frfffl,ª•\Ž!,³,è,Ä,ç,È,ç□ê□#□A,±,lfifvfVf#f“,ð‘l’ð,μ,Ä,,¾,³,ç□B

□, %øð'œ" xffXfNfgfbfv fXfP□[fŠf" fO, ð—LÆø, Ü, ½, Í-³Æø, É, μ, Ü, ·□B □, %øð'œ" xffXfNfgfbfv
fXfP□[fŠf" fO, ð—LÆø, É, ·, é, Æ□AffXfNfgfbfv, ì%øæŽ¿, æÜ□ã, μ, Ü, ·□B

f}fXf^ f,[]fh,ìê[]#[]A,±,ê,í[]AŠO•t,-"~ŠúfWfFfJfCE[]f^,ìfpf<fX,ª BNC fRfJfNf^,ð
%oî,µ,ÄŽó,~Žæ,ç,ê,éfCE[]fg (Hz) ,Å,·[]B

f}fXf^ f,[fh,ìê#A,±,é,íAŠO•t,~“ŠúWfFfJfCE[f^,ÉŠÖ~A•t,~,ç,ê,½frfffI f,[fh,Å,·B

f}fXf^ f,[]fh,ìê[]#[]A,±,ê,í[]A“~Šúpf<fX,ðfXfCE[][fu fffofCfX,É“]’—
,:;é’O,ÉŽó,~Žæ,ç,ê,é[]AŠO•t,~“~ŠúfWfFfjfCE[][f^,lfpf<fX[]”,Å,·[]B

fXf%ofCf_,đ"®,©,.,ÆADirect3D ,Æ OpenGL
fAfvfŠ,ìfpftfH[f}f"fX,ÆfNfHfŠfefB,ìCEüã,ÉŠÖ,.,éÝ'è,đ'l'đ,Å,«,Ü,·B

- **ì,fpftfH[f}f"fX**,íAfvfŠ,É,Æ,Á,ÄÅ,ìfpftfH[f}f"fX,đŽÀCE»,μ,Ü,·B
- **fpftfH[f}f"fX**,íAfvfŠ,É,Æ,Á,ÄÅ"K,ÈfpftfH[f}f"fX,Æ,%%æŽ,đŽÀCE»,μ,Ü,·B
- **fNfHfŠfefB**,íAŠù'èÝ'è,Å, ,èAfvfŠ,É,Æ,Á,ÄÅ"K,ì%%æŽ,đŽÀCE»,μ,Ü,·B

“Á’è,lfAfvfš,lfOf%oftfBfbfNfX,đ TV ,Å□Å“K%»»,μ,Ü,·□B

TV ,ì't%o>,ÉfOf%oftfBfbfNfX,ð"z'u,μ,Ü,·□B

DVD Ä—p,É TV ,ðÅ“K%».,μ,Ü,·B

ffXfNfgfbfv fOf%oftfBfbfNfX—p,É TV ,ðÅ“K%»»,μ,Ü,·B

ffXf^f€Y'è,Å TV ,ðÅ“K%».,μ,Ü,·B

fAfvfŠ,ÅŽg—p,,éfŠftfEfbfVf... fCE[]fg,đ'í'đ,Å,«,é,æ,ɣ,É,μ,Ü,·□B ,±,lfjfvfVf#f“,^a—
LCEø,È[]ê[]#[]AfŠfXfg f{fbfNfX,í-³CEø,É,È,è,Ü,·□B

fhf%ofCfo,É,æ,èAfAfvfŠ,İfŠftfEfbfVf... fCE[ifg,đ•iX,Å,«,é,æ,x,É,μ,Ü,·B ,±,İfİvfVf#f“,a—
LCEø,Éèè#A%º,İfŠfXfg f{fbfNfX,à—LCEø,Å,·B

,±,lfŠfXfg f{fbfNfX,ÅAŠe%øδ'œ"x,lfŠftfCEfbfVf... fCE[]fg,δCEÂ•É,É•ïX,Å,«,Ü,·B

Šù'è,Å,íAfAfvfŠ,lfŠftfCEfbfVf... fCE[]fg,ªŽg—p,³,è,Ü,·B

,»,ì¼,ì'l,ÉY'è,μ,½ê#AfŠftfCEfbfVf... fCE[]fg,lfAfvfŠ—p,ì'l,ÉY'è,³,è,Ü,·B

fŠftfCEfbfVf... fCE[]fg,δ•ïX,·,é,É,í

1. [fŠftfCEfbfVf...fCE[]fg] flf%øf€"à,ìAfŠftfCEfbfVf... fCE[]fg,δ•ïX,·,é%øδ'œ"x,ª, ,é[]s,Å
[Šù'è'l] ,ðfNfŠfbfN,μ,Ü,·B 'l,lfŠfXfg f{fbfNfX,ª•\Žl,³,è,Ü,·B

2. [fŠftfCEfbfVf... fCE[]fg] ,ð'l'ð,μA["K—p,·,é] ,ðfNfŠfbfN,μ,Ü,·B

fŠftfCEfbfVf... fCE[]fg,ª•ïX,³,è,é,ÆAMicrosoft Windows ,lfŠftfCEfbfVf...

fCE[]fg,ðfAfvfŠ,É,æ,èŽw'è,³,è,½fŠftfCEfbfVf... fCE[]fg,Æ,μ,Ä•ñ[]μ,Ü,·;ªAf,fjf^

(fffBfXfvfCEfC fffofCfX) ,í•ïX,³,è,½fŠftfCEfbfVf... fCE[]fg,ðŽg—p,μ,Ü,·B

“ŠůfjvfjVf#f“,đĚŸř,μÚ±,đĚŸř∅,Å,«,Ü,·B Ą<%oÊ,ÆĄ»Ÿ,ŸXfe[]f^fX,ª•\Ž!,³,ê,Ü,·B

,±,lfVfXfef€ ,đfXfCE[]fu,Æ,μ,Ü,·□B ,±,lf|fvfVf#f“,ª—LCEø,Èêê#[]AfOf%oftfBfbfNfX
f[]fh,í[]AftfCE[]f€ f[]fbfN“~Šú□M□+,đ“~Šú%»»,·,éfXfCE[]fu,Æ,μ,ĀŽg—p,³,é,Ü,·□B

fffBfXfjvfCfC,ÅfTf|[]fg,³,ê,È,çf,[]fh,ð•\Ž!,·,é,©,Ç,æ,©,ðŽw'è,μ,Û,·B

'^ÓFfffBfXfjvfCfC,ÅfTf|[]fg,³,ê,È,çf,[]fh,ð'l'ð,·,é,ÆA[][],È•\Ž}fGf%o[][,ª"-
[]¶,μ,½,èAfñ[]fh,ª¹[][],·,éê[]‡,ª, ,è,Û,·B

Œ»Ÿ'ı'đ,μ,½%œ-Ê,ì%đ'œ"x,ÉŽg—p,Å,«,é,·,×,Ä,İjXf^f€ f,İ[h,đ•\Ž!,Å,«,Ü,·B

«»'ı'đ,³,ê,Ä,ç,é,ffj^ (ffBfXfjvfCfC fffofCfX) ,ı%œ'œ%đ'œ"x,ÅŽg—
p,Å,«,éŒŒtfCfbfVf... fC[fg,đ•\Žı,μ,Ü,·B flfVfVfŒ",đfNfŒfbfN,·,é,ÆA^Ù,È,éŒŒtfCfbfVf...
fC[fg,đ'ı'đ,Å,«,Ü,·B

ÅĚã,ÉŽg—p,μ,½%æ-Ê%đ'œ“xÅĚã,É•ïX,đŽŽ,Ý,½ff%[]AfŠftfĚfbfVf... fĚ[]fg,đ•\
Ž!,μ,Ü,·B

fjfXf^f€ ,l%ođ'œ"x•□,đŽ©"®'²□® ,Á,« ,Ü ,·□B •□,ì'í,í 8 ,ì" {□" ,Á,È ,-,ê,î,È,è,Ü ,¹,ñ□Bf ,fjf^ fffBfXfjvfCfC ,lf^fCf~f"fo f ,□lfh ,đ'í'đ ,Á,« ,Ü ,·□B

- **Ž©"®CEŸ□o** - □³ ,μ ,cf^fCf~f"fo□î•ñ ,af ,fjf^ ,© ,ç'¼□Ú Windows ,É'— ,ç ,ê ,Ü ,·□B f□f ,□F<CE^ ,lf ,fjf^ ,ì't ,É ,í□A ,± ,í<@" \ ,afTf□[fg ,³ ,ê ,Ä ,ç ,È ,ç ,à ,ì ,à , ,è ,Ü ,·□B
- **^ê"Êf^fCf~f"foCEöŽ® (GTF)** - □V ,μ ,cf ,fjf^ ,ÆfffBfXfjvfCfC fffofCfX ,ì'â" •ª ,ÁŽg— p ,³ ,ê ,Ä ,ç ,é •W□€ ,Á ,·□B
- **"Æ—šf ,fjf^ f^fCf~f"fo (DMT)** - ^ê" ,lf ,fjf^ ,Á^É'R ,Æ ,μ ,ÄŽg—p ,³ ,ê ,Ä ,ç ,éCEĀ ,ç •W□€ ,Á ,·□B f ,fjf^ ,Ü ,½ ,lfBfXfjvfCfC fffofCfX ,Á DMT ,ªŽw'è ,³ ,ê ,Ä ,ç ,é□ê± ,í□A ,± ,lf|fvVf#f" ,đ— LCEø ,É ,μ ,Ü ,·□B
- **CVT Ší□€ ,í 2003 "N 3 CEŽ ,É vESA Ší□€ ,É ,È ,è ,Ü ,μ ,½□BCVT ,í'¼ ,lf^fCf~f"foŠí□€** ,æ ,è□ ,%ođ'œ"x ,É'í%ož ,μ ,Ä ,ç ,Ü ,·□B
- **CEĀ'è□c%o ;"äf^fCf~f"fo** - •\Ží ,³ ,ê ,½%oæ'œ ,É□Af ,fjf^ ,ì□c%o ;"ä ,Á ,í ,È ,f ,□lfh ,ì□c%o ;"ä ,đ<□\$^ŮŽ□ ,³ ,¹ ,Ü ,·□B f□f ,□Ffhf%ofCfo ,í□A •K—v ,É%ož ,¶ ,Ä□A •\Ží ,³ ,ê ,½ %oæ'œ ,ìžü^í ,É□• ,lf{□lf_ ,đ"z'u ,· ,é ,± ,Æ ,ª , ,è ,Ü ,·□B

%o°CEü ,« ,ì-î^ó ,đfNfŠfBfN ,· ,é ,Æ□A ,± ,ê ,ç ,lfjf%o□[•â□³□Ý'è ,đ ,Ç ,± ,É"K—p ,· ,é ,©Žw'è ,Á ,« ,Ü ,·□B

- **,· ,x ,Ä** - Windows fffXfNfgfbfv ,Æfrfffi□Ä□¶ ,É□Ý'è ,đ"K—p ,μ ,Ü ,·□B
- **fffXfNfgfbfv** - ,± ,ê ,ç ,lfjf%o□[•â□³□Ý'è ,đ Windows fffXfNfgfbfv ,É"K—p ,μ ,Ü ,·□B
- **fí□[fo□[fCEfC/vMR** - fí□[fo□[fCEfC ,đŽg—p ,μ ,Ä□A ,± ,ê ,ç ,lfjf %o□[•â□³□Ý'è ,đfrfffi□Ä□¶ ,É"K—p ,μ ,Ü ,·□B
- **ftf<fXfNfŠ□[f" frfffi** - ,± ,ê ,ç ,lfjf%o□[•â□³□Ý'è ,đftf<fXfNfŠ□[f" frfffi□Ä□¶ ,É"K—p ,μ ,Ü ,·□B

%œü,«,î-î^ó,đfNfŠfbfN,·,é,ÆAfXf%oCf_[]Ü,½,í<ÈüfRf“fgf[]f<,ìîÜ,Æ,È,éjff%[]
f`fff“flf<,đ'í'đ,Å,«,Ü,·B []ÔA—
ÍAÁ,lf`fff“flf<,đCEÁ•É,É'²[]@,µ,½,èA[]#[]-f`fff“flf<,đ”-Žž,É'²[]@,Å,«,Ü,·B

ffj%[][•â³<Èü,lfOf%oftfBfbfN•Ž[]B “ü-í'í,í x Ž²,ÉA'²[]@[]o-í'í,í y Ž²,É•Ž[],³,ê,Ü,·B
[]"í,í-x,ì•Ò[]Wf{fbfNfX,É•Ž[],³,ê,Ü,·B

- **W[]Ej,[]fh** - fRf“fgf%ofXfg[]A-¾,é,³[]A,Ü,½,ífKf“f} fXf%ofCf_[][,đ'²[]@,·,é,Æ[]A,±
,ì<Èü,lf_fCfif~fbfN,É•í%»»,µ,Ü,·B
- **Ú[]xj,[]fh** - f}fEfX,ÅfRf“fgf[]f< flfCf“fg,đfhf%ofbfO,µ[]A•Ò[]Wf{fbfNfX,ì'í,đ•İ[]X,µ,½,è[]A-
î^ófL[][,Å,±,ì<Èü,đfŠfAf<f^fCf€,Å•İ[]X,Å,«,Ü,·B f}fEfX,í[]lf{f^f“,đ<Èü%o^,ç
,ÉfNfŠfbfN,·,é,©[]AfL[][,đ%Ÿ,µ,Å[]AfRf“fgf[]f< flfCf“fg,đ'Ç%oÁ,Å,«,Ü,·B fRf“fgf[]f< fl
fCf“fg,í[]Afhf%ofbfO,µ,ÅfOfEf“fh,©,ç[]o,·,©[]Ade1 fl[][,đŽg—
p,µ,Å[]œ<Ž,Å,«,Ü,·B,Ü,½[]A•;[]”,lfRf“fgf[]f< flfCf“fg,đ^è“x,É'í'đ,·,é,É,í[]Afhf
%ofbfO,µ,Å'í'đ,µ[]AShift fl[][,Æ Control fl[][,đŽg—p,µ,Ü,·B
- **icc fvf[]ftfB[]f< f,[]fh** - icc fvf[]ftfB[]f<,©,ç“Ç,Ýž,Ü,é,éjff%[][•â³<Èü,â•Ž[],³,ê,Ü,·B
fvf[]-p,lfpfufŠfbfVf“fO fAfvfŠ,đŽg—p,µ,Å[]Aicc fvf[]ftfB[]f<,É, ,é[]i•ñ,ÉŠi,Å,«fjff
%o[][,đ^è'v,³,¹,Å,¾,¾,ç[]B

f|fCf"fg,Èf}fEfX,ì^Ê'u□A,Ü,½,Í<È□üfOf%oft,ìfRf"fgf□□lf< f|fCf"fg,ì"ü—Í'!,ð•\Ž!,μ,Ü,·□B

f|fCf"fg,Èf}fEfX,ì^Ê'u□A,Ü,½,Í<È□üfOf%oft,ìfRf"fgf□□lf< f|fCf"fg,ì□o—Í'l,ð•\Ž|,μ,Ü,·□B

Žg—p,Å,«,éjff%o□[•â□³fvf□ftfB□[f<,lfŠfXfg,ð•\Ž!,μ,Ü,·□B

- **W□€f,□lfh** - fRf“fgf%ofXfg□A-¾,é,³□A,“,æ,ÑfKf“f} fXf%ofCf_□[,ðŽg—p,μ,Ä□Afjf %o□[•â□³□Ý’è,ðŽw’è,Å,«,Ü,·□B
- **Ú□xf,□lfh** - fOf%oft,ì<Èü%o^,ç,ÉfRf“fgf□□[f< flfCf“fg,ðŽè”@,Å’}“ü□Afhf %ofbfO□A,“,æ,Ñ□œ<Ž,μ,Ä□Afjf%o□[•â□³□Ý’è,ðŽw’è,Å,«,Ü,·□B flfvfVf#f“,ª— LCEø,È□ê□#□AfXf%ofCf_□[,É•\Ž!,³,ê,é□Ý’è,í“K—p,³,ê,Ü,¹,ñ□B
- **icc fvf□ftfB□[f< f,□lfh** - Žw’è,μ,½ icc fvf□ftfB□[f<,©,çfCf“f|□[fg,μ,½fjf %o□[•â□³<Èü,ðŽg—p,μ,Ü,·□B icc fvf□ftfB□[f< f,□lfh,ð’l’ð,μ□A [fCf“f|□[fg] f{f^f“,ðfNfŠfbfN,·,é,Æ□Afvf□ftfB□[f<,ª“Ç,Ý□ž,Ü,ê,Ü,·□B flfvfVf#f“,ª—LCEø,È□ê□#□AfXf %ofCf_□[,É•\Ž!,³,ê,é□Ý’è,í“K—p,³,ê,Ü,¹,ñ□B

fjfxf^f€□Ý’è - •Ü’¶,μ,½fjfxf^f€□Ý’è,àfŠfXfg,É•\Ž!,³,ê,Ü,·□B [fjfxf^f€□Ý’è]

fvf□ftfB□[f<,ðfAfNfefBfu,É,·,é,É,í□AfŠfXfg,©,ç□€-Ú,ð’l’ð,μ,Ü,·□B

Žg—p,·,é ICC fvf□ftfB□lf<,lftf@fCf<-¼,đŽw'è,Å,«,Ü,·□B

%œ-Êfjjf...l•ÒW,ðØ,è'Ö,ı,é,±,Æ,ª,Å,«,Ü,·B

%œ-Êfjff...[•ÒW,âfj“,ìê#A”ñ•\Ž;%œ-Ê,ĴŠXfg,đ•\Ž,μ,Û,·B

,±,ìlfvfVf#f“,đŽg—p,·,é,ÆANVIDIA GPU ftj@f“,đĀ’ăfĈfxf<,ĀP<v“l,É<šŽÀs,μAGPU
%o.“x,Ü,½,ìfpftfH[f}f“fX f,[fh,đ-³Ž<,Ā,«,Ü,·B ,±,ìf,[fh,Ā,íAftj@f“,í^è’è,ìfmfCfY
fĈfxf<,đ¶¶¬,μ,Ü,·B

