

,±,ì|fvVf#f",íA Fogfe[fuf<fGf~f...fCE[fVf#f",ì—LCEøE-³CEø,ðÝ'è,μ,Ü,·B
Direct3D,íAfffBfXfvfCEfCfAf_fvf^,ªVertex Fog<y,ÑTable Fog,ðfn[fhfEfffAfTf|f|fg,·,é,©,Ç,κ
,©,ðf`fFfbfN,μ,Ü,·BfQ[f€,É,æ,Á,Ä,íAD3D,ìfn[fhfEfffA<@"\,íÚ×(Table Fog<@"\,ðŠÜ,ρ)
,ð"Á'è,Ä,«,É,ç,±,Æ,ª, ,è,Ü,·,ì,ÄA,» ,ì,æ,κ,ÉfQ[f€^fCfGf<,ðRIVA 128/TNTŽg—p,ìfOf
%oftfBfbfNfXf{[fh,Ä"®i,³,¹,é,Æ,« ,É,íA,±,ìfvVf#f",ð—LCEø,É,μ,Ä,,¾,³,çB
Fogfe[fuf<fGf~f...fCE[fVf#f",íAfffHf<fg,Ä,íON,É,È,Á,Ä,ç,Ü,·B

, ±, ì|fvfvfjf", í|Afhf%oFCfo, ì|Af" f` fGfŠfAfVf" fO<@"\, ðÝ'è, µ, Ü, ·B

fAf" f` fGfŠfAfVf" fO, íA3DfIfufWfFfNfg, ì|GfbfW, ì, -, ', -, ', ðXf€[]fY, ÉŒ©, |, é, æ, x, É, ·, é, Æ, «, ÉŽg

—p, ³, ê, Ü, ·B, È, "AfAf" f` fGfŠfAfVf" fO<@"\, ð—

LŒø, É, µ, Ä, àA'S, Ä, ì|AfvfŠfP[]fvfjf", ÅŽ© "®"l, É, ±, ì<@"\, a—LŒø, É, È, é, í, -, Å, í, , è, Ü, ¹, ñ

BDirect3Dfvf[]fOf%oF€[]ã, ÅfAf" f` fGfŠfAfVf" fO, a—

LŒø, É, È, Ä, ½fCf[]fW, ð[]q[]-, ·, é, ½, ß, É, í|AfAfvfŠfP[]fvfjf" 'x, ÅfAf" f` fGfŠfAfVf" fO, ì"®i, ³fTf]

[]fg, ³, ê, Ä, ç, È, -, ê, Ì, È, ç, È, ç, ©, ç, Å, ·B

^È%oº, ì|fvfvfjf", ©, ç' l' ð%oÅ"\, Å, ·:

—LŒø -fhf%oFCfo, ©, çDirect3D, ì|Af" f` fGfŠfAfVf" fO<@"\, ð—

LŒø, É, µ, Ü, ·BffftfHf<fg, ìÝ'è, Å, ·B

-³Œø - 'S, Ä, ì|Af" f` fGfŠfAfVf" fOfTf[]fg, ð-³Œø, É, µ, Ü, ·B

,±,lfjvfjvfjff“,íA AfvfjŠfP[fVfjff“,Ü,½,ÍfQ[f€,Å•K—v,Èê±,ÉARIVA
128,í³•úCE`fefNfXf`ff<@“\,ð—LCEø,É,μ,Ü,·B

‘ÉíARIVA 128f`fbfv,í³•úCE`fefNfXf`ff,íftfH[f]fbfg,ðŽg—p,μ,Ü,·B³•úCE`,ífefNfXf`ff,ðŽg—
p,·,é,±,Æ,Å AfefNfXf`fff[f,Š,ðÅ,àCEø—|,æ,Žg—p,·,é,±
,Æ,ª,Å,«,Ü,·B,½,¾,μA“Á’è,lfAfvfŠfP[fVfjff“,íA,±,lfjvfjvfjff“,ð—LCEø,É,·,é,Æ,π,Ü,-
“@í,μ,Ü,¹ñB,à,μfQ[f€,â,»,í^¼,lfAfvfŠfP[fVfjff“,ðŽg—p,μ,Ä-â’è,^ª¶,¶,½,Æ,«,É,íA,±
,lfjvfjvfjff“,ð⁻³CEø,É,μ,Ä³•úCE`,Å,È,çfefNfXf`ff,ìŽg—p,ð<-‰Å,μ,Ä,^¾,^¾,çB

,±,lfjvfjvfjff“,íADirect3Dfhf%ofCfo,©,çA5-6-5(RGB)fefNfXf`ff,lfTf|[fg,ð—LCEøE-
³CEø,É,μ,Û,·B

“Á’è,lfQ[f€,Å,íA5-6-5fefNfXf`ff,lfhfhfEfhfAfhf|[fg,ð—LCEø,É,·,é,ÆF,³í,É•\Ž!,³,è,È,ç,±
,Æ,ª, ,è,Û,·B,Û,Æ,ñ,Ç,lfQ[f€,Å,í—LCEø,É,μ,½ó’Ö,Å“®ì,μ,Û,·,ì,ÅAfQ[f€,ÅF,ª,“,©,μ,-
,È,Á,½,Æ,«,É,ì,Ý,±,lfjvfjvfjff“,ð-³CEø,É,μ,Ä,,¾,³,çB

,±,lfjvfjvf#f“,íARIVA 128f`fbfv,žg—p,·,éVfXfef€f,fšã,lfefNfXf`ff—
Ê,ðY`è,µ,Û,·B(f{[fhã,lfOf%oftfBfbfNfXf,fš,ÉX,É'Ç%Á,µ,Á)

'^Ó: fpftfH[f}f“fXã,ì—R,©,çA,±,lf+[fefBfšfefB,ÍWindows,afÆf|
[fg,·,éVfXfef€f,fš,ì”¼•^Éã,ì—Ê,ðY`è,·,é,±,Æ,í,Å,«,Û,¹,ñB

RIVA 128, íAfofXã, ðefNfXf`ff, ð"]'—Eø—|, ðã, °, é, ½, ß, ÉAMipMap, ðŽ©“ ©¶¶—, , é, ±, Æ, ð
%oÂ“\, Å, ·B

“Á'è, ðfQ[f€, Å, íAffffHf<fg, ðÝ'è, ðŽg—p, , é, Æ³í, É•\Ž|, Å, «, Ü, ¹, ñB-â'è, ð
%oðCE^, , é, É, ÍŽ©“ ©¶¶—, ³, ê, éMipMap, ð” , ðAfQ[f€, ð%œ-Ê, ð³í, É•\Ž|, ³, ê, é, Ü, ÅCE, , ç, ·K—
v, ð, , è, Ü, , ðAMipMapfCEfxf<, ð” , ðCE, , ç, , ÆAfefNfXf`ff, ð•Å, Ñ, ð•s~A'±
, É, È, Á, ½, èAfpfH[f}f“fX, ð'½'á%o, µ, ½, è, , é, ±, Æ, ð, , è, Ü, ·B

,±,lfvfVf#f",íAMipMap,ðfsfNfZf<P^Ê,Å—LCEø,É,·,é,©A,à,μ,,Íf|fŠfSf""P^Ê,Å—
LCEø,É,·,é,©,ð'I'ð,Å,«,Ü,·B

fsfNfZf<P^Ê,lf~fbfvf}fbfsf"fO,É,æ,Á,ÄAfefNfXf`fff}fbfv,³,ê,½f|
fŠfSf",Šg'â,âk~³,ê,À,àAfXf€[fY,ÈfefNfXf`ff,lfOf%ff[fVf#f",ðŽÀCE»,Å,«,·B,Ü,½A
%<—£,É, .efefNfXf`ff,ì,ç,Å,«,ð%ÿ,³,l,éCEø%Ê,à, ,è,Ü,·B

~³,Èf|fŠfSf",ð""½,Žg—p,μ,Ä,ç,éfv[f",È,Ç,Å,íA,±,ìMipMap•û-@,É,æ,é^á,ç
,Í,Ü,Æ,ñ,Ç"FŽ~,Å,«,Ü,¹,ñB

' , " f i , i e j , è • ô , μ , δ — L e ø [E - ³ C e ø , É] B

, ± , i f i v j v f f j " , í A • K — v , È , Æ , « , É D i r e c t 3 D , i f o [f [f A f < f t f @ f u f C e f " f f f B f " f o , i < @ " \ , δ —
L e ø , É , μ , Ü , · B " Á ' è , i f A f v f Š f P [f v f f j " < y , Ñ f Q [f e , È , Ç , Å , í A " Æ Ž © , i f A f < f t f @ f u f C e f " f f f B f " f o < @ " \
, ð Ž g — p , μ , Ä , ç , Ü , · , ° A , ± , i < @ " \ , í D i r e c t 3 D f h f % o o f C f o , Å , í • K , , μ , à f T f | [f g , ³ , è , Ä , ç , é , í , ¯ , Å , í , , è , Ü , ¹ , ñ [B , ± , i f i v j v f f j " , δ - ³ C e ø , É , · , é , ± , Æ , Å [A f A f v f Š f P [f v f f j " < y , Ñ f Q [f e , í " Æ Ž © , i • û -
@ , Å f C e f " f _ f Š f " f o , ð [s , x , ± , Æ , ° % ° Å " \
, É , È , è , Ü , · , í , Å [A f f f B f x f v f C e f C f n f i f Š f e f B , i C e ü [ä , ° , Å , « , é [ê [† , à , , è , Ü , · B

, Ü , ½ [A D i r e c t 3 D f A f v f Š f P [f v f f j " , à , μ , , í f Q [f e
, ð Ž Å [s , μ , ½ [Ü , É [A f i f u f W f F f N f g , i f A f < f t f @ f u f C e f " f f f B f " f o , ° [³ , μ , • \ Ž | , ³ , è , Ä , ç , È , ç , æ , x
, È , Æ , « , É , í A , ± , i < @ " \ , δ — L e ø , É , · , é , ± , Æ , Å - â ' è , ° % ° ð C e ^ , · , é , ± , Æ , à , , è , Ü , · B

, ± , i < @ " \ , i f f t f H f < f g , Å — L e ø , É , È , Á , Ä , ç , Ü , · B

Direct3D,lfjXf^f€Ÿ'è,đ•Ů'¶,μ,Ů,·BfŠfXfg,©,ç'l'đ,μ,½Ÿ'è,ª—LCEø,É,È,è,Ů,·BŸ'è,đ"½
%of,·,é,É,ÍA"OK",à,μ,,í"K—p"f^f",đ%oŸ,μ,Ä,,¾,¾,çB

Ⓒ»Ÿ,ìDirect3DŸ'è,ð•Ű'¶,μ,Û,·⊠B("Direct3DŰ×Ÿ'è"ƒƒCfAfŒO"à,ÅŸ'è,μ,½,à,ì,àŠÛ,Ÿ,Û,·⊠
B)•Ű'¶,³,ê,½Ÿ'è,í⊠AfjXf^f€Ÿ'è,lfSfXfg,©,ç'í'ð%Å"\\,É,Ě,è,Û,·⊠B

^ê%ň⊠ADirect3DfQŒ[f€,È,Ç,ÉÅ"K,ÈŸ'è,ðŒs,Á,ÄA,»ìDirect3DŸ'è,ì"à—
e,ð•Ű'¶,μ,Ä," , ,í⊠AZŸ%ň,©,ç,í,»,ê,¼,ê,lfQŒ[f€,²,Æ,ÉÅ"K,ÈŸ'è,ðŠ'P,É'í'ð,Å,«,Û,·⊠B

«»'ı'đ,μ,Ä,ç,éjfxf^f€'è,đřřfg, ©,çÁ<Ž,μ,Ü,·B

'S,Ä,ìŸ'è,đfftfHf<fg'l,É-β,μ,Û,·B

'^Ó: ,±,ìf{f^f“,đ%Ÿ,μ,½æã,É“OK”,à,μ,,í“K—p”f{f^f“,đNfŠfbfN,·,é,ÆA,±
,ìft[fejbŠfefB“à,ÄŸ'è,μ,½'S,Ä,ìŸ'è,ìfNfŠfA,³,èAfffBfXfvfæfCfhf
%oCfo,ìfftfHf<fgŸ'è,É-β,è,Û,·B

Direct3D, ìÚ×Ý'è,ÉŠÖ,·,éf_fCfAfO,δ•\Ž1,μ,Û,·B

RIVA 128, ìú×ý'è, ÉŠÖ, ;éf_fCfAf_fO, đŠJ, «, Ü, ·B

,±,lfjvfvf#f“,íAftfBf<f^‘O,lfefNfZf<,É‘í,.,éfn[fhfEjFfA,lfefNfXf`ff fAfhfCEfbjVf“fO•û-
@,ð•íX,μ,Ü,·B

,±,ì‘,ð•íX,.,é,±,Æ,ÅAfefNfZf<,ìŠŽn^Ê‘u,ª•íX,³,ê,Ü,·BffftfHf<fg‘l,íDirect3D,lfXfyfbfN,É[]
,xCE`,É,È,Á,Ä,ç,Ü,.,ªA,ç,,Á,©,lf

ftfgfEjFfA,Å,íAftfBf<f^‘O,lfefNfZf<,ìŠŽn^Ê‘u,ª^{1/4},ìêŠ,ÉY‘è,³,ê,Ä,ç,é,±,Æ,^a, ,è,Ü,·B,»,ì,æ,
x,ÉfAfvfŠfP[fVf#f“,Å,íAfefNfZf<,ìŠŽn^Ê‘u,ðÄY‘è,.,é,±,Æ,ÅAfCf[]fw,lfNflfŠfefB,ð
%ü‘P,.,é,±,Æ,^a,Ä,«,Ü,·B

,±,lfjvfvf#f“,íAftfBf<f^Eã,lfefNfZf<,Éî,.,éfn[fhfEjFfA,lfefNfXf`ff fAfhfEfbjVf“fO•û-
@,ð•ïX,µ,Ü,·B

,±,l'í,ð•ïX,.,é,±,Æ,ÅAfefNfZf<,ìŠŽn^Ê'u,ª•ïX,³,ê,Ü,·BffftfHf<fg'l,ÍDirect3D,lfXfyfbfN,É[]
,x`É,È,Á,Ä,ç,Ü,·,ªA,ç,,Á,©,lf

ftfgfEjFfA,Å,íAftfBf<f^Eã,lfefNfZf<,ìŠŽn^Ê'u,^{a'1/4},ìêŠ,ÉY'è,³,ê,Ä,ç,é,±,Æ,^a, ,è,Ü,·B,»,ì,æ,
x,ÉfAfvfŠfP[fVf#f“,Å,íAfefNfZf<,ìŠŽn^Ê'u,ðÄY'è,.,é,±,Æ,ÅAfCf[]fW,lfNfjŠfefB,ð
%ü'P,.,é,±,Æ,^a,Ä,«,Ü,·B

, ±, ìlfvfjvfj#f“, í AfAfvfjŠfP[fvfj#f““à, ÅfWfjf ffgfŠ, ì•s@f#É, æ, Á, Ä<N, ±, éf|
fŠfSf“ŠÔ, ìMfffbfv, È, Ç, ð-Ü—š, ½, È, ç, æ, x, É, ·, é, ±, Æ, ³, Å, «, Ü, ·B

, ±, ìY’è, ÅfWfjf ffgfŠŠÔ, ìCE,, ŠÔ, ð%oB, ·, ½, ß, ìfsfNfZf<f“, ð’²@, ·, é, ±
, Æ, Å AfCf[fW, ìNfjŠfefB, ð%ü’P, ·, é, ±, Æ, ³, Å, «, Ü, ·B

'S,Ä,ìÝ'è,öfftfHf<fg'l,É-ß,μ,Ü,·□B

OpenGLfAfvfŠfP[fVf#f“ä,Å,lfefNfXf`fffCf[fW,lfNfIfŠfefB,ð'²®,Å,«,Ü,·B
%œŽ,ÉÅ“K%»»,ðs,æ,ÆAÅ,,lfNfIfŠfefB,lfefNfXf`ff,Žg—
p,³,êAÅ,,lfCf[fWfNfIfŠfefB,“¾,ç,ê,Ü,·B
‘—“x,ÉÅ“K%»»,ðs,æ,ÆAfCf[fW,lfNfIfŠfefB,í’á
%º,µ,Ü,·,·AfAfvfŠfP[fVf#f“,lfpftfH[f}f“fX,íEüä,µ,Ü,·B
fof%of“fX,ð’l’ð,·,é,ÆAä<L,ì2,Â,ì’ŠÔ,ìÝ’è,ðŽg—p,µ,Ü,·BffftfHf<fg,ìÝ’è,Å,·B

PClfefNfXf`fffq[fv—ì^æ,ìÅ'â'l,ðÝ'è,μ,Û,·B
 \•ª,Èf[f,fŠ—e—Ê,ðŽ,Á,½PClfofXfx[fX,lfVfXfef€,Å,±,ì'l,ð',â,·,±,Æ,ÅA,ç,-
,Å,©,ìOpenGLfAfvfŠfP[fVf#f"ã,Å,íA'â,«,ÈfpftfH[f}f"fX,ìEüã,ð},é,±,Æ,ª%Å"\,Å,·B
'^Ó: fpftfH[f}f"fXã,ì—R,©,çA,±,ìft[fefBfŠfefB,íWindows,ªfEf|
 [fg,·,éfVfXfef€f[f,fŠ,ì"¼•ª^Êã,ì—Ê,ðÝ'è,·,é,±,Æ,í,Å,«,Û,¹,ñB
,±,ìÝ'è,íAAGP'í%ž,ìffBfXfvfEfCfAf_fvf^Žg—pŽž,É,íEø%Ê,ª, ,è,Û,¹,ñB

, ±, ÌfXf%ofCf_fRf“fgf□□[f<, É, æ, Á, Ä□AR, G, B, » , ê, ¼, è, ìf`fff“flf<•Ê□X, ÉfKf“f}’l, Ì□Ý’è, ð□s, ±, Æ, ð, Å, «, Û, ·□B

fKf“f}fRfCEfNfVf†f“<@”\, É, æ, Á, Ä□AfffBfXfvfCEfC, É□o—í, ³, ê, éfCf□□[fW, ÆCE³ff□[f^, ì-¾, é, ³, Ì^á, †, ð•â□³, ·, é, ±, Æ, ð%oÅ”\, Å, ·□B, ±, Ì<@”\, É, æ, è□AZÊÉ^%oæ’œ, ð^μ, ±fAfvfŠfP□[fVf†f“ , È, Ç, ðŽg—p, μ, ½□Û, É, à□A%oæ-Ê□ã, Å, æ, è□³Šm, È□F, Ì□ÄCE», ð□s, Ì, Û, ·□B

, Û, ½□A’½, , Ì3D’Í%ožfQ□[f€, Ì□A%oæ-Ê, ð^Ã, fvfCE□[., μ, Å, ç, †□ê□‡, ð, , è, Û, ·, Ì, Å□Afkf“f}’l, ð-¾, é, -□Ý’è, ·, é, ±, Æ, Å, æ, è—V, Ñ, â, ·, , È, é, È, Ç, ÌCEø%oÊ, à, , è, Û, ·□B

,±,lfvfjvf#f“,íA,·,x,Ä,lfKf“f}’lY’èfXf%ofCf_[][,ð“~Šú,³,¹,Ü,·B,±
,ê,É,æ,Á,ÁA’S,Ä,lf`fff“flf<,lfKf“f}’l,ð“~,¶’l,É,»,è,!,é,±,Æ,³,Å,«,Ü,·B

• Ů'¶Ńİ,Ÿ,İffXf^f€Kf"f}ŃŸ'è,İfŠfXfg,Å,·ŃBfŠfXfg,©,ç'İ'đ,μ,½ŃŸ'è"à—e,^a—LÆø,É,È,è,Ü,·ŃB

«»Ù,lfKf“f”l,ðffXf^f€Ù’è,É•Ù’¶,µ,Û,·B•Ù’¶,µ,½”à—
e,ÍAfffXf^f€fKf“f”Ù’è,lfŠfXfg,É”ü,è,Û,·B

«»'ı'đ,μ,Ä,ç,éjfxf^f€Kf"f}»'è,đřXfg,©,çíœ,μ,Ü,·B

fKf“f} □Ý’è, ðfn □[fhfEfFfA, ìffftfHf·fg’l, É-ß, μ, Û, · □B

2 Ž í — p, ì f, f j f ^ f ^ f C f ~ f " f O f, □ [f h, ð ' I ' ð, Å, «, Ü, · □ B

General Timing Formula , Ü, ½, Í **GTF:** □ V, μ, ç f n □ [f h f E f F f A, Å • W □ € " I, É Ž g — p, ³, ê, Ä, ç
, é f, □ [f h, Å, · □ B f f f t f H f < f g, ì □ Ý ' è, Å, · □ B

Discreet Monitor Timings , Ü, ½, Í **DMT:** ^ È ' O, Ü, Å Ž g — p, ³, ê, Ä, ç, ½ f, □ [f h, Å □ A, Ü, ¾, ç, -
, Å, ©, ì f n □ [f h f E f F f A, Å Ž g — p, ³, ê, Ä, ç, Ü, · □ B, " Ž □, ç, ì f n □ [f h f E f F f A, a DMT, ð Ž g — p, , é, Æ, «, É, Í □ A, ±
, ì f ì f v f v f t f " , ð — L Ç ø, É, μ, Å, , ¾, ¾, ç □ B

f r f f f l f f f , f Š , © , ç , ì f e f N f X f ` f f < @ " \ , ì — L E ø E - ³ E ø , ð Ý ' è , μ , Ü , · B

MipMap,iffBfUfŠf“fO,ì—LCEø□E-³CEø,đ□Ý’è,μ,Ü,·□B

MipMap, ìŽ©“®□¶□→•û-@,đ'ı'đ,μ,Û,·□B

'□^Ó! ,±,ê,ÍfefXfg□ê—p,Å,·! fVfXfef€,^a•s^À'è,É,È,é%oÂ"□«,^a, ,è,Ü,·!

,±,lfjvfVf#f",íAfhf%ofCfo,ìDirectX6<@"\,ð-³CEø,É,μ,Û,·B
^È'O,ìfo[fWf#f",ìDirectXCEü,¯,Éññ¬,³,ê,½,ç,,Â,©,ìfQ[f€
,Å,íADirectX6,³fCf"fXfg[f<ñí,Ý,ÅAAX,Éfhf%ofCfo,ìDirectX6fTf|f[fg,ª—LCEø,É,È,Á,Ä,ç
,éêññ,É,í"®ñì,μ,È,ç,±,Æ,ª, ,è,Û,·B,±,lfjvfVf#f",ð—LCEø,É,·,é,±,Æ,ÅAfhf
%ofCfo,ªDirectX5CEÝŠ·f,ñfh,Å"®ñì,μ,Û,·,ì,ÅA,»,ì,æ,π,ÈCEÃ,çfQ[f€,à-â'è,È,"®ñì,³,¹,é,±
,Æ,ª,Å,«,Û,·B
CEÃ,çfQ[f€,ª"®ñì,μ,È,ç,Æ,«,âA^Ó},μ,È,ç"®ñì,ð<N,±,·,Æ,«,È,Ç,É,±,lfjvfVf#f",ðŽg—
p,μ,Ä,,¾,³,çB

,±,lfjvfVf+f“,íA“Á’è,ìCPU,ÁfTf|[]fg,³,é,é3DŠg’£-½—β,lfhf%ofCfofTf|[]fg,ð-³CEø,É,μ,Ü,·□B

,ç,,Â,©,ìCPU,Á,íA3DCEü,¯,ìŠg’£-½—β,ðfTf|[]fg,μ,Ä,¨,è□ARIVA

128,Æ,ì’g,Ý□‡,í,¹,Á3DfAfvfŠfP□[fVf+f“,âfQ□[f€,lfpftfH□[f}f“fX,ðCEü□ã,³,¹,é,±,Æ,^a,Á,«,Ü,·□B,±

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