

f w f < f v f g f s f b f N , ì ^ ê — — , ð • \ Ž ! , , é , É , [□ A [f w f < f v] , ì [f g f s f b f N , ì Ç È Ï □ ð] , ð f N f Š f b f N , μ , Ä , , ¾ , ³ , ç □ B

DirectX

Microsoft® DirectX®

DirectX

-â'è.ìĈ^ô.đ"Á'è. .é

DirectX fRf"fi"flf"fg.ìfefXfg.đs.æ

Šù'è.ì"®ì.đ•ïX. .é

fhf%ofCfo.đ•œĈ³. .é

î•ñ.đ•Û'ŋ. .é

-â'è.đ•ñ. .é

DirectX 11.1

DirectX® 11.1 je sada softwarových komponent, která umožňuje aplikacím využívat grafiku a zvuk v počítačových hrách a aplikacích. DirectX 11.1 obsahuje nové funkce, které zlepšují výkon a kvalitu grafiky a zvuku. DirectX 11.1 je dostupná v Windows 8 a Windows 7. DirectX 11.1 je také dostupná v Linuxu a Mac OS X.

- Nové funkce DirectX 11.1
 - DirectX 11.1 obsahuje nové funkce, které zlepšují výkon a kvalitu grafiky a zvuku.
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-â'è,ìĈ'ö,ð'Á'è,-,é

DirectX fAfvfšfP[fVf#", ìŽÀ[s't,É-â'è,ª"□¶,μ,½□ê□#,í□ADirectX □f'ffc□[f<,ðŽg,α,Æ-â'è,ìĈ'ö,ð'Á'è,À,«,Û,·□BŽŸ,ì,æ,α,É-â'è,ª,È,ç,©Šm"F,μ,Ä,,¾,³,ç□B

□ ĈÈ,Á,½fo□[fWf#", ì DirectX fRf"fl□[flf"fg□B[DirectX ftf@fCf<] f^fu,ì ['□^Ó) ,Á□AfX□[f^ ftf@fCf<,âfffofbfO ftf@fCf<,ÉŠÖ,·,éĈEx□□,ª,È,ç,©Šm"F,μ,Ä,,¾,³,ç□BfX□[f^ ftf@fCf<,í□%Šú,ìfexfg— pfo□[fWf#", Á□A□α—pfAfvfšfP[fVf#", ,Æ<α,ÉfCf"fxfg□[f<,·,×,«,à,ì,Á,í, ,è,Û,¹,ñ□BfffofbfO fo□[fWf#", ìfvf□fOf%of€ ,ðš] ,·,é□Û,ÉŽg,í,è,éftf@fCf<,Á□A,±,è,à□Á□□»·i,Æ<α ,ÉfCf"fxfg□[f<,·,×,«,à,ì,Á,í, ,è,Û,¹,ñ□BfffofbfO fo□[fWf#", ìfRf"fl□[flf"fg,ªfCf"fxfg□[f<,³,è,Ä,ç ,é,Æ□A□»·i"Á,ªfCf"fxfg□[f<,³,è,Ä,ç,é□ê□#,æ,è,àfAfvfšfP[fVf#", ìŽÀ[s'—"x,ª'á•□,É'á%º,·,é,±,Æ,ª, ,è, Û,·□B

□ "F'è,³,è,Ä,ç,È,çfhf%ofCfo□B[DirectX fhf%ofCfo] f^fu,ìftf@fCf<,ì^ê—,Á□A-ç"F'è,ðŽì,·f}□[fN,ª\ Žì,³,è,Ä,ç,éfhf%ofCfo,ª,È,ç,©Šm"F,μ,Ä,,¾,³,ç□B[fffBfXfvfĈfC]□A[ftfEf"fh]□A,·,æ,Ñ ["ü—í] f^fu,ì ['□^Ó) ,É,à□A,» ,ì¼,ì-â'è,ªŽì,³,è,Ä,ç,é□ê□#,ª, ,è,Û,·□B-ç"F'è,ìfhf%ofCfo,í□A□Á□Vfo□[fWf#", ì DirectX ,ÆŠ@'S,ÉĈŸŠ·□<,ª, ,é,©,ç,α,©,ðf}fCfNf□\ftfg,É,æ,Á,ÄfefXfg,³,è,Ä,ç,Û,¹,ñ□B

□ fn□[fhfEfFfA fAfNfZf%ofĈ□[f^,ìĈ#"@□B^ê•", ìfvf□fOf%of€,í□ADirectDraw® ,Û,½,í Direct3D® fn□[fhfEfFfA fAfNfZf%ofĈ□[f^,ª—~—p,Á,«,È,ç,Æ□AŽÀ[s'—"x,ª"ñ□í,É'á%º,·,é,©□A,Û,½,í,Û,Á,½,- "©□,μ,Û,¹,ñ□B[fffBfXfvfĈfC] f^fu,ì [DirectX,ì<@"\] ,Á□ADirectDraw ,Û,½,í Direct3D ,É "Žg—p%ºÁ"\ ,ÉfAfNfZf%ofĈ□[f^,È,μ" ,Æ•\Žì,³,è,Ä,ç,È,ç,©Šm"F,μ,Ä,,¾,³,ç□B•\Žì,³,è,Ä,ç ,é□ê□#,í□Afn□[fhfEfFfA,ìfAfbfvfOfĈ□[fh,ðĈŸ"ç,μ,½,Û,α,ª,æ,ç,©,à,μ,è,Û,¹,ñ□B

□ fffofCfX,ª□Ú'±,³,è,Ä,ç,È,ç□BfWf#fCfXfefBfbfN,È,ç,ì"ü—ífffofCfX,ª%ºž"š,μ,È,ç□ê□#□A□³,μ,- fZfbfgfAfbfv,³,è,Ä,ç,È,ç%ºÁ"\□<,ª, ,è,Û,·□B,»,ìfffofCfX,ª□ADirectX □f'ffc□[f<,ì ["ü—í] f^fu,É•\Žì,³,è,Ä,ç ,é,©,ç,α,©Šm"F,μ,Ä,,¾,³,ç□B•\Žì,³,è,Ä,ç,È,ç□ê□#,í□Afrf"fg□[f< fplf<,ðŽg,Á,ÄfffofCfX,ð'ç %ºÁ,μ,Û,·□B

DirectX fRf“f|□[flf“fg,lfefXfg,đ□s,κ

DirectX □f’ffc□[f<,đŽg,Á,Ä□AfVfXfef€É□Ú’±,³,ê,Ä,ç,éŠef,fjf^,Á,ì DirectDraw ,”,æ,Ñ Direct3D
,lfefXfg□ÅŠe WAVE □o—ÍfffofCfX,Á,ì DirectSound® ,lfefXfg□A,”,æ,ÑŠef~f...□[fWfbfN f|□[fg,Á,ì
DirectMusic™ ,lfefXfg,đ□s,κ,±,Æ,ª,Å,«,Ü,·□B

[lfefXfg] ,đfNfŠfbfN,·,é,Æ□Af□fbfZ□[fW,ª\Ž!,³,ê,½CEã□Af,fjf^,â□o—
ÍfffofCfX,ÅfefXfg,ªŽÀ□s,³,ê,Ü,·□BfefXfg,ª□—CE÷,μ,½,©,Ç,κ,©,đŠm”F,·,é□fbfZ□[fW,ª\
Ž!,³,ê,é,Ü,Å□A,»ê,¼,ê,lfefXfg,đŽÀ□s,³,¹,Ü,·□B[,ç,ç,¡]
,đfNfŠfbfN,μ,½□ê□‡,í□A,»ê,ê^É□āfefXfg,ÍŽÀ□s,³,ê,Ü,¹,ñ□B

DirectMusic ,ì□ê□‡,í□A’P^ê,lfefXfg,ª□s,í,ê,Ü,·□B%%o’t,³,ê,½%o¹Šy,É-â’è,ª,È,ç□ê□‡□A,Ü,½,í□³,μ,%o
%o’t,³,ê,È,ç□ê□‡□A’P,É [OK] ,đfNfŠfbfN,μ,Ü,·□B

□î•ñ,đ•Ú’¶,μ,Ä,à□AfefXfg,ìCE<%oÊ,í•Ú’¶,³,ê,Ü,¹,ñ□B

Šù'è,ì"®ì,ð•ïX,·,é

fVfXfeJÉ,ÉfCf"fxfg[f<,³,è,Ä,ç,éŠefffBfXfvfCEfC fffofCfX,É'í,·,é [fffBfXfvfCEfC] fy[fW,Ä [-³CEø]
,ðNfŠfbfN,·,é,ÆADirectDraw ,Ü,½,í Direct3D (—~—p%Ä"\,Éêê) ,ìfn[fhfEjFfA fAfNfZf%ofCE[f^,ð-
³CEø,É,·,é,±,Æ,ª,Ä,«,Ü,·B-³CEø,É,µ,½fAfNfZf%ofCE[f^,í DirectX [f'ffc[f<,ð]—
¹,µ,½CEã,à,»,ì,Ü,Ü,ÄAfAfVfŠfP[fVf#f", ©,ç—~—p,·,é,±,Æ,í,Ä,«,Ü,¹,ñBfAfNfZf%ofCE[f^,ð,à,æ"è"x—
LCEø,É,·,é,É,íA[-LCEø] fNfŠfbfN,µ,Ü,·B

' : DirectDraw fAfNfZf%ofCE[f^,ð-³CEø,É,·,é,ÆADirect3D ,ìfAfNfZf%ofCE[f^,à-³CEø,É,É,è,Ü,·B

,Ü,½ADirectDraw ,ì'S%æ-Ê•ŽìfAfVfŠfP[fVf#f"Žg—pŽž,ìf,ìfj^,ìfŠftfCEfbfVf... fCE[fq,ð•ïX,·,é,±
,Æ,à,Ä,«,Ü,·B,±,ì•ïX,íA"Á'è,ìfAfVfŠfP[fVf#f", ÄfffBfXfvfCEfC,ÉŠÖ,·,é-à'è,ª"¶,µ,Ä,ç
,ÄA,»,ìfAfVfŠfP[fVf#f",ª-³CEø,ÉfŠftfCEfbfVf... fCE[fq,ðŸ'è,µ,Ä,ç,é,ÆŽv,í,é,é³"-,É—
R,ª, ,éêê,É,¾,³s,Ä,Ä,¾,³,çB

▶ **fŠftfCEfbfVf... fCE[fq,ð•ïX,·,é,É,í**

1. [,»,è,Ä,à-à'è,ª%øðCE^,µ,È,çêê) f^fu,ÄA[ä',«] ,ðNfŠfbfN,µ,Ü,·B
2. [DirectDraw fŠftfCEfbfVf... fCE[fq,ìä',«] f_fCfAf_fO f{fbfNfX,ÄfGfffBfbfg
f{fbfNfX,ð'í'ð,µAf,ìfj^,É'í,µ,Ä-LCEø,ÉfŠftfCEfbfVf... fCE[fq,ð"ü—í,µ,Ü,·B,±,ìf{fbfNfX,É'í,ð"ü—
í,·,é,ÆA[ä',«'í] ,ªŽ©"®"í,Éfj",É,É,è,Ü,·B
3. [OK] ,ðNfŠfbfN,µ,Ü,·B

▶ **fŠftfCEfbfVf... fCE[fq,ì•ïX,ðžæ,èÄ,µ,ÄADirectDraw
fAfVfŠfP[fVf#f",ª"ÆZ©,ìfŠftfCEfbfVf... fCE[fq,ðŸ'è,Ä,«,é,æ,æ,É,·,é,É,í**

1. [,»,è,Ä,à-à'è,ª%øðCE^,µ,È,çêê) f^fu,ÄA[ä',«] ,ðNfŠfbfN,µ,Ü,·B
2. [DirectDraw fŠftfCEfbfVf... fCE[fq,ìä',«] f_fCfAf_fO f{fbfNfX,ÄA[Šù'è'í] ,ðfj",É,µ,Ü,·B
3. [OK] ,ðNfŠfbfN,µ,Ü,·B

fhf%ofCfo,đ•œCE³,·,é

□\□¬,É,æ,Á,Ä,Í□A DirectX® □f'ffc□[f<,Á□A^È'O,lf□[fffBfl fhf%ofCfo,¨,æ,Ñfrfffl fhf %ofCfo,đ•œCE³,Ä,«,Ü,·□Bfhf%ofCfo,ì"ñCEÝŠ·□«,ì-â'è,ì%oðCE^,É,Í□A,±,é,ª□Ä,à,æ,¢•û-@,Ä, ,é□ê□‡,ª, ,è,Ü ,·□B

[,»,é,Á,à-â'è,ª%oðCE^,µ,È,¢□ê□‡] f^fu,É [•œCE³] f{f^f",ª\Ž!,³,è,Ä,¢,é□ê□‡,Í□A,± ,lf{f^f",đfNfŠfbfN,µ□ADirectX fZfbfgfAfbfv fv□fOf%of€,đŽÀ□s,Ä,«,Ü,·□B

DirectX fZfbfgfAfbfv,É,Í□A[f□[fffBfl fhf%ofCfo,ì•œCE³] ,Æ [fffBfXfvfCEfC fhf%ofCfo,ì•œCE³] f{f^f",ª, ,è,Ü,·□B,¢, ,è,©,lf{f^f",đfNfŠfbfN,·,é,Æ□AfvfXfef€,É DirectX ,đfCf"fXfg□[f<,µ,½,Æ,«,É'u,«Š·,!,ç,è,½fhf%ofCfo,ª•œCE³,³,è,Ü,·□Bf{f^f",ªŽg—p%oÄ"\ ,Ä,É,¢□ê□‡,Í□A•œCE³,·,éfhf%ofCfo,ì, ,è,Ü,¹,ñ□B,»,ì□ê□‡,Í□Afn□[fhfEfffA,ì□»'¢CE³,É-â,¢□‡,í,¹,Ä□Ä□V,lfhf %ofCfo,đ"üŽè,µ,Ä,,¾,¾,³,¢□B

DirectX fZfbfgfAfbfv,É,Í□ADirect3D fn□[fhfEfffA fAfNfZf%ofCE□]f^,đ- ³CEø,É,·,éf fFfbfNf{fbfNfX,à, ,è,Ü,·,ª□A ,±,é,Í□ADxDiag "à,Ä,à□s,±,Æ,ª,Ä,«,Ü,· (Šù'è,ì"®□ì,đ•í□X,·,é ,đŽQ□Æ,µ,Ä,,¾,¾,³,¢)□B

□î•ñ,đ•Ů'¶,·,é

DirectX □f'ffc□[f<,āŽú□W,μ,½□î•ñ,đ•Ů'¶,·,é,É,Í□A2 ,Ā,ì•ù-@,ā ,è,Ü,·□B

□ [□î•ñ,đ,·,×,Ā•Ů'¶] ,đfNfŠfbfN,μ,Ü,·□B,·,×,Ā,ìfy□[fW,ì□î•ñ,ā□AŽw'è,μ,½□ê□Š,É, ,éŽw'è,μ,½-¼'O,ìftf@fCf<,É•Ů'¶,³,è,Ü,·□B

,±,ìfc□[f<,ìŠJ"ŽÒEü,~fšfš□[fX,đŽg,Ā,Ā,ç,éftfgfEfFfAšJ"ŽÒ,Ā, ,é,Í□AŽŸ,ì•ù-@,đ,Æ,é,±,Æ,à,Ā,«,Ü,·□B

□ [,»è,Ā,à-â'è,ā%øđCE^,μ,È,ç□ê□‡] f^fu,Ā□A[•ñ□□] ,đfNfŠfbfN,μ,Ü,·□B[□áŠQ•ñ□□,ì□î•ñ] f_fCfAf□fO f{fbfNfX,ā•\Ž!,³,è,Ü,·□B•K-v,È,·,×,Ā,ìff□[f^,đ"ü-Í,μ□l,!,½,ç□A['-□M] ,đfNfŠfbfN,μ,Ü,·□B^êŽžffBfCEfNfgfŠ (,½,Æ,!,ì□AC:\Windows\Temp) ,É Dxinfo.txt ,Æ,ç,α-¼'O,ìfefLfXfg ftf@fCf<,ā□□-³,è□Af□f,' ,ĀŠJ,©,è,Ü,·□B,±,ìftf@fCf<,É,Í□A'O,ì•ù-@,ĀŽú□W,³,è,½□î•ñ,ì,Ü,©,É□Af_fCfAf□fO f{fbfNfX,Ā"ü-Í,μ,½CEĀ□□î•ñ,â,»!,¼,ì□î•ñ,āŠÜ,Ü,è,Ü,·□B

-â'è,ð•ñ□□,·,é

DirectX ,lfRf“f□□lf“fg,Ü,½,ífhf%ofCfo,ÉŠÖCEW,ª, ,é,ÆŽv,í,è,é-â'è,ª”□¶,µ,½□ê□#,í□Af}fCfNf□\ftfg
fefNfjffj< ftf□□fg,É~A—□,·,é,±,Æ,ª,Ä,«,Ü,·□BfefNfjffj< ftf□□fg,Ö,ì~A—□,ì•ù-@,É,Ä,ç,Ä,í□AMicrosoft®
Windows® fwf<fv,ì□ufgf%ofuf<fvf...□[fefBf“fO□v,ðŽQ□Æ,µ,Ä,,¾,¾,ç□BŠJ”-
ŽÖCEü,~fŠfŠ□□fX,ì□f'ffc□□f<,ðŽg,Ä,Ä,ç,é\ftfgfEfffAŠJ”ŽÖ,Ä, ,é,í□A“dŽqf□□f<,Ä-â'è,ð•ñ□□,·,é,±,
,Æ,à,Ä,«,Ü,·□B

'□ : Žÿ,ìŽè□#,í□A,±,íf□□f<,ìŠJ”ŽÖCEü,~fŠfŠ□□fX,É,ì,Ý“K—p,¾,è,Ü,·□B,±,ì•ù-
@,í□A,·,x,Ä,ìft□□fU□□,ªŽg,ì,é,í,~,Ä,í, ,è,Ü,¹,ñ□B

► “dŽqf□□f<,Ä-â'è,ð•ñ□□,·,é,É,í

1. [,>,è,Ä,à-â'è,ª%ðCE^,µ,È,ç□ê□#] f^fu ,Å□A[•ñ□□] ,ðfNfŠfbfN,µ,Ü,·□B
2. [□áŠQ•ñ□□,ì□î•ñ] f_fCfAf□fO f{fbfNfX,É•K—v,È,·,x,Ä,ì□î•ñ,ð“ü—í,µ□A[‘—□M] ,ðfNfŠfbfN,µ,Ü,·□B
3. □ì□-,¾,è,½fefLfXfg ftf@fCf<,ìftf< fpfX,Æ“dŽqf□□f< fAfhfCEfX,ðŽì,·f□fbfZ□□fW,ª•\Žì,¾,è,Ü,·□B“dŽqf□□f<
fAfhfCEfX,ð□',«,Ä,~,Ä,~,«,Ü,·□B[OK] ,ðfNfŠfbfN,µ,Ü,·□Bf□f,' ,ª<N“®,¾,è□ADxinfo.txt ,ì“à—e,ª•\
Žì,¾,è,Ü,·□B
4. f□f,' ,ì [•Ò□W] f□fjf...□[ì [,·,x,Ä'í'ð] ,ðfNfŠfbfN,µ□A[•Ò□W] f□fjf...□[ì [fRfs□□]
,ðfNfŠfbfN,µ,Ü,·□Bftf@fCf<,ì,·,x,Ä,ì“à—e,ªfNfŠfbfvf{□□fh,É“ü,è,ç,è,Ü,·□B
5. “dŽqf□□f< fvf□fOf%of€ ,Å□V,µ,çf□fbfZ□□fW,ð□ì□-,µ□AfNfŠfbfvf{□□fh,ì“à—e,ðf□fbfZ□□fW-{•¶,É“\
,è•t,~,Ü,·□B,±,ìf□fbfZ□□fW,ð□AZè□# 3 ,Å□',«,Ä,~,½fAfhfCEfX,É'—□M,µ,Ü,·□B

