

ELSAÅX°Ê<sub>3</sub>] ©w

ELSAÅX°Ê<sub>3</sub>] ©wYH°ELSAÏÏÏÏ [3Yd° Direct3D;BOpenGL©MµwÅé||iæ·L½Ö;C  
-°Àð±o,Ô²Ó°o,ê°T½DÏ°Ï°e·¶±°WµUµâ»;©ú;C

üÜ·Q½Ö¾aC

-°Àð±o³Ãð!C³i©Øµ¥Ø»i©ú«H@§iA½Dç;³4Û,Óµ¥ØÃW#¥³»i©ú;C

Axis 3D Direct3D C++ i34U μ±N±0v;C;A;Uw;M;ö;s;C

±N·í«eDirect3D³] ©wÀx's-°iÚ©w,q@ŵ;C@6-O©ÒÀ©s³³N¼Wŕî-Ú¾F³³C³f³³;C  
³@ŕ¹§ä`i«ü©wDirect3D¹CÀ³³³i¹³] ©w;A`Nŕi±N(©)wÀx's-°iÚ©w,q³]  
©w;AŕH«á'b±Ö°É,Ó¹CÀ,«eŕi§Ö³Direct3D:ÓµL»ŕ¹r'C-Ó;ŕµŕj;iæ³v³@ŵ;C

§R°f«elbC°fα; i³4Û°iÛ©w, QW;C

±N©Ö<sup>3a03</sup>]©w«i½E-°:ä1wñ;C  
£YU;J b³eA», Ö«ö||s«ä|A¥B\$Y;#2T©w©M¥ÍÓ²M°£1³]©w¶|ia°©Ö³ÄÜ\$ó;A±q|Ó±j»sÄq¶ÜKäb³] -È;C

Ó;í¶uYÍ©691ã³-¼v¹³¼Ö½kªYé-u;C  
Direct3D³W©w à¶j;Ð3DµwAé¶¹AãYÜ¾4t¶¶-±YdÀ³-à¹ê²  
{³»Á!¼v¹³¼Ö½kÖFí@æ¹¼v¹³¼Ö½k;C¶@`Ç¹CA,±æY;½T!a-Ð3DµwÁé-à±O`Á´Á±æÀð±o¹@æ¹¼v¹³¼Ö½k±ä´©;C;í¾Ü,Ó;í¶µ±N½T«O³o.Ñ¶DÌAí¶¶¶æ;C  
¼v¹³¼Ö½kªYé-u¹w³] -¹°±¹³C



30`C; i||YiYH±±; iAX°Êi°iYç~u`S©Ê; C  
iYç u`Oα@°OYI`OË«Y6Aä/2||; iæYu`E³B²zYH@ø°£; -3/4! \$F²αδ°k; C½Dα·N±Ö°ÊiYç~u`Ãæ£; ||Û°Ê·Ï©ÒBfrect3Dμ  
{; i`è~V iYç~u`i³; C~° iYç~u`Yç± μ§ @; AY²¶YÑÀ³Yiμä`©; C  
YiYH±qYHαUç; i||μα; i³4Û; J  
α¹³\ - α¹³\bAX°Êi; α¹³iYç~u`||; iDirect3Dαä`©; C  
Ãö³~Ãö³~©Ò³iYç~u`αä`©; C

,Ó;í¶µÿiÃö³-ÁX°Êµ·s°DirectX-S°Ê;C  
-°!-Ç°©¥»°DirectX°Ö½s¼g°°@°Ç¹CÀ,jAYí~àæ~àÿl~w,ÊDirectX°©¥6°©H°H°í°ä°b°ÁX°Êµ±±¹°ä°Ç¥;½T°δ;æ;C;í³4Ü,Ó;í¶µ±j»sÁX°Êµ  
{;¥H DirectX 5-Y°e°e°Ê¼Ö;°δ;æ;AYH«KÁÿ!-Á¹CÀ,~àÿ;½T°δ;æ;C  
!p°G·Q°δ;æ-Y°Çæ~à±Ö°Ê°íæ~àÿ;±°δ;æ°°!-Á¹CÀ,jAYí¥H~ÿí,Ó;í¶µ;C

±j»suwÄé±N Z1/2w1/2Ä<sup>ao2</sup> «x!Ü°É)2Ö3/4ä-° Ä<sup>ao</sup>Ö-n·D<sup>ao2</sup> «x;C  
³q±`jA°£«Dau\$ @u`i»Ý-n«üCw1/2Ä² «x;A\$ \_«h³£·Q±N,Ó<sub>i</sub>¶¶«O«ù-°¶¶¶p°G,Ó<sub>i</sub>¶¶u-OÄö³-°o;A«h`i©ö¶ö!óÀ³¶Í¶  
{i;Aip°G`äau\$ @ao Z)2w1/2Ä² «x»P-i«eµwÄé°t,m££Ç°t;A±N£.°ö!æ;C

3D I<sup>13</sup> e-V @ A<sup>4</sup> G; C  
3D I<sup>13</sup> e-V @ A<sup>4</sup> G; C

