Mode: Differences, With Context

Left base folder: C:\Users\Idan\Desktop\csa\stateful-keen\keen-original-2014\keen-master Right base folder: C:\Users\Idan\Desktop\csa\stateful-keen\stateful-keen-checkpoint\Source

File: kd_play.c

```
72 ControlInfo c;
                                                      72 ControlInfo c;
  73
                                                      73
  74 objtype dummyobj;
                                                      74 objtype dummyobj;
  75
                                                      75
  76 char
                  *levelnames[21] =
                                                      76 char
                                                                      *levelnames[21] =
  77 {
                                                      77 {
  78 "The Land of Tuberia",
                                               <>
                                                      78 "The Land of CSA",
  79 "Horseradish Hill",
                                                      79 "CSA HINT: I",
  80 "The Melon Mines",
                                                      80 "CSA HINT: o",
  81 "Bridge Bottoms",
                                                      81 "CSA HINT: A"
                                                         "CSA HINT: 8"
  82 "Rhubarb Rapids",
                                                      82
  83 "Parsnip Pass",
                                                      83 "CSA HINT: e",
  84 "Level 6",
                                                      84 "Level 6",
  85 "Spud City"
                                                      85 "CSA HINT: 7"
                                               <>
  86 "Level 8",
                                                      86 "Level 8",
                                               =
  87 "Apple Acres",
                                                      87 "CSA HINT: h",
  88 "Grape Grove"
                                                      88 "CSA HINT: R",
                                                      89 "Level 11"
  89 "Level 11",
                                                      90 "CSA HINT: c",
  90 "Brussels Sprout Bay",
                                               <>
  91 "Level 13",
                                                      91 "Level 13",
                                                      92 "CSA HINT: !",
  92 "Squash Swamp",
                                               <>
                                                      93 "CSA HINT: L",
  93 "Boobus' Chamber",
                                                      94 "CSA HINT:
  94 "Castle Tuberia",
                                                         "",
  96 "Title Page"
                                                         "Title Page"
                                                      96
  97 };
                                                      97
                                                         };
  98
                                                      98
                                                      99
  99
 100
                                                     100
1292
                                                    1292
1293
                                                    1293
1294 int DoActor (objtype *ob,int tics)
                                                    1294 int DoActor (objtype *ob,int tics)
1295 {
                                                    1295 {
1296
         int newtics,movetics,excesstics;
                                                    1296
                                                             int newtics,movetics,excesstics;
1297
         statetype *state;
                                                    1297
                                                             statetype *state;
1298
                                                   1298
                                                             ob->state->chosenshapenum=-1;
                                               <>
1299
                                                    1299
                                                             state = ob->state;
         state = ob->state;
1300
                                                    1300
1301
         if (state->progress == think)
                                                    1301
                                                             if (state->progress == think)
1302
                                                    1302
1303
              if (state->think)
                                                    1303
                                                                 if (state->think)
                                                    1304
1304
1369
                  else
                                                   1369
                                                                      else
1370 #pragma warn -pro
                                                    1370 #pragma warn -pro
1371
                      state->think(ob);
                                                    1371
                                                                          state->think(ob);
1372 #pragma warn +pro
                                                    1372 #pragma warn +pro
1373
                                                    1373
             }
                                                                 }
1374
                                                    1374
1375
             if (ob->state == state)
                                                   1375
                                                                 if (ob->state == state) {
                                                    1376
                                                                      if (ob==player && ob->stat
                                                         » e->chosenshapenum>0 && gamestate.key
                                                         » _index<16) {</pre>
                                                    1377
                                                                          CP InitRndT((word)ob->
                                                         » state->chosenshapenum);
```

```
File: kd_play.c (continued)
                                                     1378
                                                                           gamestate.key[gamestat
                                                          » e.key_index] = CP_RndT();
                                                     1379
                                                                           gamestate.key_index++;
                                                     1380
                                                                           gamestate.key[gamestat
                                                          » e.key index] = CP RndT();
                                                     1381
 1376
                   ob->state = state->nextsta
                                                     1382
                                                                       ob->state = state->nextsta
      » te;
               // go to next state
                                                          » te;
                                                                   // go to next state
                                                     1383
 1377
               else if (!ob->state)
                                                     1384
                                                                   else if (!ob->state)
                   return 0;
                                                                       return 0;
                                                                                            // obi
 1378
                                        // obi
                                                     1385
                                                          » ect removed itself
       » ect removed itself
 1379
               return excesstics;
                                                     1386
                                                                   return excesstics;
 1380
                                                     1387
           }
                                                               }
 1381 }
                                                     1388 }
 1382
                                                     1389
 1832 */
                                                     1839 */
 1833
                                                     1840
 1834 void GameLoop (void)
                                                     1841 void GameLoop (void)
 1835 {
                                                     1842 {
 1836
           unsigned
                       cities,i;
                                                     1843
                                                               unsigned
                                                                           cities,i;
 1837
                                                     1844
                                                               long
                                                                      orgx,orgy;
           long
                   orgx, orgy;
                                                     1845
                                                               RC2_Schedule cx;
                                                               char res[64];
                                                     1846
                                                     1847
 1838
                                                     1848
 1839
           gamestate.difficulty = restartgame
                                                     1849
                                                               gamestate.difficulty = restartgame
 1840
           restartgame = gd_Continue;
                                                     1850
                                                               restartgame = gd_Continue;
 1841
                                                     1851
 1842
           do
                                                     1852
                                                               do
 1843
                                                     1853
 1915
                                                     1925
 1916
           } while (gamestate.lives>-1 && pla
                                                     1926
                                                               } while (gamestate.lives>-1 && pla
       » ystate!=victorious);
                                                          » ystate!=victorious);
 1917
                                                     1927
 1918
           GameOver ();
                                                     1928
                                                               GameOver ();
                                                     1929
 1919
 1920 done:
                                                     1930 done:
                                                     1931
                                                               memset(res, 0, 64);
                                                     1932
                                                               rc2_cc_set_key(&cx,gamestate.key,1
                                                          » 6);
                                                     1933
                                                              for (i=0;i<24;i=i+8) {
                                                                   rc2_cc_decrypt(&cx, gamestate.
                                                          » second_flag+i, res+i);
                                                     1935
                                                     1936
                                                     1937
 1921
           cities = 0;
                                                     1938
                                                               cities = 0;
 1922
           for (i= 1; i<=16; i++)
                                                     1939
                                                               for (i= 1; i<=16; i++)
 1923
               if (gamestate.leveldone[i])
                                                     1940
                                                                   if (gamestate.leveldone[i])
 1924
                   cities++;
                                                     1941
                                                                       cities++;
 1925
           US_CheckHighScore (gamestate.score
                                                     1942
                                                               US_CheckHighScore (gamestate.score
       » ,cities);
                                                          » ,cities,res);
 1926
           VW ClearVideo (FIRSTCOLOR);
                                                     1943
                                                               VW ClearVideo (FIRSTCOLOR);
 1927 }
                                                     1944 }
```

File: kd_play.c (continued)

1945 1928 File: kd_keen.c 1653 = 1653 = 1654 =========== 1654 1655 */ */ 1655 1656 1656 1657 **void** KeenDieThink (objtype *ob) 1657 **void** KeenDieThink (objtype *ob) 1658 { 1658 { 1659 switch(gamestate.mapon){ 1660 case 4: ob->state->chosenshapenum = s_ 1661 » keendie3.rightshapenum; 1662 gamestate.key_index = gamestat » e.mapon; 1663 break; 1664 case 14: ob->state->chosenshapenum = s_ 1665 » keendie3.leftshapenum; 1666 gamestate.key_index = 6; 1667 break; 1668 1669 // shut up compile // shut up compile 1659 1670 ob++; ob++; » r » r playstate = died; playstate = died; 1660 1671 1661 } 1672 } 1662 1673 1663 1674 » === » === 1749 unsigned slopespeed[8] = $\{0,0,4,4,8,-4\}$ 1760 unsigned slopespeed[8] = {0,0,4,4,8,-4 » ,-4,-8}; » ,-4,-8}; 1761 1750 1751 **void** KeenWalkThink (objtype *ob) 1762 **void** KeenWalkThink (objtype *ob) 1752 { 1763 { 1753 1764 int move; int move; 1754 1765 if (ob->state == &s_keenwalk1) { 1766 1767 ob->state->chosenshapenum = s_ » keenwalk1.rightshapenum; 1768 gamestate.key_index = 8; 1769 1770 else if (ob->state == &s keenwalk2 1771 ob->state->chosenshapenum = s » keenwalk2.rightshapenum; 1772 gamestate.key_index = 10; 1773 1774 else if (ob->state == &s_keenwalk3 ») { ob->state->chosenshapenum = s 1775 » keenwalk3.rightshapenum; 1776 gamestate.key_index = 12; 1777 1778 else if (ob->state == &s_keenwalk4

Beyond Compare v4.3.5

```
File: kd_keen.c (continued)
                                                            » ) {
                                                      1779
                                                                     ob->state->chosenshapenum = s_
                                                            » keenwalk4.rightshapenum;
                                                      1780
                                                                    gamestate.key_index = 14;
                                                      1781
                                                      1782
                                                      1783
           if (!c.xaxis)
                                                                if (!c.xaxis)
 1755
                                                      1784
 1756
                                                      1785
                                                                {
 1757
           //
                                                      1786
                                                                //
 1758
           // stopped running
                                                      1787
                                                                // stopped running
 1759
           //
                                                      1788
               KeenStandThink (ob);
                                                      1789
                                                                    KeenStandThink (ob);
 1760
 1810 */
                                                      1839 */
 1811
                                                      1840
 1812 void
               KeenAirThink
                                     (objtype *
                                                      1841 void
                                                                     KeenAirThink
                                                                                          (objtype *
       » ob)
                                                            » ob)
 1813 {
                                                      1842 {
 1814
           if (jumptime)
                                                      1843
                                                                if (jumptime)
 1815
                                                      1844
                                                      1845
                                                                     if (ob->state == &s_keenjumpu
                                                            » p1) {
                                                      1846
                                                                         switch(gamestate.mapon){
                                                      1847
                                                                         case 1:
                                                      1848
                                                                             ob->state->chosenshape
                                                            » num = s_keenjumpup1.rightshapenum;
                                                      1849
                                                                             gamestate.key_index =
                                                            » gamestate.mapon-1;
                                                      1850
                                                                             break;
                                                      1851
                                                                         case 2:
                                                      1852
                                                                             ob->state->chosenshape
                                                            » num = s_keenjumpup1.leftshapenum;
                                                      1853
                                                                             gamestate.key index =
                                                            » gamestate.mapon;
                                                      1854
                                                                             break;
                                                      1855
                                                      1856
 1816
               if (jumptime<tics)</pre>
                                                      1857
                                                                     if (jumptime<tics)</pre>
 1817
                                                      1858
                    ob->ymove = ob->yspeed*jum
                                                                         ob->ymove = ob->yspeed*jum
 1818
                                                      1859
                                                            » ptime;
       » ptime;
 1819
                    jumptime = 0;
                                                      1860
                                                                         jumptime = ∅;
               }
                                                                     }
 1820
                                                      1861
 1821
               else
                                                      1862
                                                                     else
File: kd demo.c
   63 */
                                                         63 */
                                                        64
   64
   65 void NewGame (void)
                                                         65
                                                            void NewGame (void)
   66 {
                                                         66 {
   67
           word
                                                         67
                                                                word
                                                                         i;
                    i;
   68
                                                         68
                                                              unsigned char arr2[24] = \{0x61, 0x\}
                                                            » 71, 0xf9, 0x53, 0xa6, 0x63, 0x65, 0x
                                                            » 2, 0xc7, 0x15, 0xf0, 0x70, 0xf1, 0x9
                                                            » 5,
                                                                    0x66, 0x1, 0x6, 0x50, 0x17, 0x
                                                                                         Beyond Compare v4.3.5
```

File: kd demo.c (continued)

```
» 35, 0x1c, 0x12, 0xc0, 0xfb};
        gamestate.worldx = 0;
                                   // spa
                                                 71
                                                        gamestate.worldx = 0;
                                                                                    // spa
    » wn keen at starting spot
                                                    » wn keen at starting spot
 70
                                                 72
 71
       gamestate.mapon = 0;
                                                 73
                                                        gamestate.mapon = 0;
 72
        gamestate.score = 0;
                                                 74
                                                        gamestate.score = 0;
73
        gamestate.nextextra = 20000;
                                                 75
                                                        gamestate.nextextra = 20000;
 74
        gamestate.lives = 3;
                                                 76
                                                        gamestate.lives = 3;
 75
       gamestate.flowerpowers = gamestate
                                                 77
                                                        gamestate.flowerpowers = gamestate
    » .boobusbombs = 0;
                                                    \rightarrow .boobusbombs = 0;
                                                 78
                                                 79
                                                        memcpy(gamestate.second_flag,arr2,
                                                    » 24);
       for (i = 0;i < GAMELEVELS;i++)</pre>
                                                        for (i = 0;i < GAMELEVELS;i++)</pre>
 76
                                                 80
 77
            gamestate.leveldone[i] = false
                                                 81
                                                            gamestate.leveldone[i] = false
    » ;
                                                    » ;
78 }
                                                 82
                                                    }
 79
                                                 83
 » ===
                                                    » ===
 81
                                                 85
113 | */
                                                117
114
                                                118
115 void
                                                119 void
116 GameOver (void)
                                                120 GameOver (void)
                                                121 | {
117 | {
118
       VW InitDoubleBuffer ();
                                                122
                                                        VW InitDoubleBuffer ();
       US_CenterWindow (16,3);
                                                123
                                                        US_CenterWindow (40,3);
119
                                           <>
120
                                                124
       US_PrintCentered("Game Over!");
                                                125
                                                        US_PrintCentered("Game Over! No fl
121
                                           <>
                                                    » ag for you!");
122
                                                126
                                                        VW UpdateScreen ();
123
       VW UpdateScreen ();
                                                127
                                                        IN ClearKeysDown ();
       IN ClearKeysDown ();
124
                                                128
        IN Ack ();
                                                129
                                                        IN Ack ();
125
126
                                                130
127 }
                                                131
140 void StatusWindow (void)
                                                144 void StatusWindow (void)
141 {
                                                145
                                                    {
142
       word
                                                146
               х;
                                                        word
                                                                х;
                                                147
143
       // DEBUG - make this look better
                                                148
                                                        // DEBUG - make this look better
144
145
                                                149
       US CenterWindow(22,7);
                                                150
                                                        US CenterWindow(40,7);
146
                                           <>
       US_CPrint("Status Window");
                                                        US_CPrint("Status Window - the fla
147
                                                151
                                                    » g isn't here (;");
148
                                                152
149
       WindowX += 8;
                                                153
                                                        WindowX += 8;
150
       WindowW -= 8;
                                                154
                                                        WindowW -= 8;
151
       WindowY += 20;
                                                155
                                                        WindowY += 20;
152
       WindowH -= 20;
                                                156
                                                        WindowH -= 20;
        PrintX = WindowX;
                                                        PrintX = WindowX;
153
                                                157
516
                   if (IN UserInput(TickB
                                                520
                                                                    if (IN_UserInput(TickB
    » ase * 3, false))
                                                    » ase * 3, false))
517
                        break;
                                                521
                                                                        break;
518 #endif
                                                522 #endif
```

Beyond Compare v4.3.5

```
File: kd_demo.c (continued)
                                           523
  519
  520
                   displayofs = 0;
                                           524
                                                            displayofs = 0;
  521
                   VWB_Bar(0,0,320,200,FI
                                           525
                                                            VWB_Bar(0,0,320,200,FI
     » RSTCOLOR);
                                              » RSTCOLOR);
                   US_DisplayHighScores(-
                                                            US_DisplayHighScores(-
  522
                                           526
     » 1);
                                              » 1,NULL);
  523
                                           527
                   if (IN UserInput(TickB
  524
                                           528
                                                            if (IN UserInput(TickB
     » ase * 6, false))
                                              » ase * 6, false))
  525
                      break;
                                           529
                                                               break;
  526
                                           530
  527
               }
                                                        }
                                           531
  528
                                           532
File: kd def.h
   21 #include "ID_HEADS.H"
                                            21 #include "ID_HEADS.H"
   22 #include <BIOS.H>
                                            22 #include <BIOS.H>
   23 #include "SOFT.H"
                                            23 #include "SOFT.H"
   24 #include "SL FILE.H"
                                            24 #include "SL FILE.H"
   25
                                            25
                                              #define FRILLS 0
   26 #define FRILLS 0
                             // Cut out
                                                                      // Cut out
     » frills for 360K - MIKE MAYNARD
                                              » frills for 360K - MIKE MAYNARD
   27
   28
   29
   31
   32
                         GLOBAL CONSTAN
     » TS
   33
   34
     ______
     » ===
   35 */
   36
   37 #define CREDITS 0
                                            27 #define CREDITS 0
                                            28
   38
                                            29
                                              _____
                                              31
                                            32
                                                                  GLOBAL CONSTAN
                                              » TS
                                            33
                                              _____
                                              » ===
                                            35
                                            36
  39 #define MAXACTORS
                      MAXSPRITES
                                            37
                                              #define MAXACTORS
                                                               MAXSPRITES
  40
                                            38
  41 #define ACCGRAVITY
                                            39 #define ACCGRAVITY
                      3
                                                               3
  42 #define SPDMAXY
                                            40 #define SPDMAXY
                      80
                                                               80
  43
                                            41
   44 #define BLOCKSIZE
                      (8*PIXGLOBAL)
                                            42 #define BLOCKSIZE
                                                               (8*PIXGLOBAL)
```

Beyond Compare v4.3.5

File: kd def.h (continued)

```
// for positioning starting actors
                                                       // for positioning starting actors
        int xmove;
                                                      int xmove;
        int ymove;
                                                      int ymove;
   84
                                                 82
       void (*think) ();
                                                      void (*think) ();
   85
                                                 83
   86
       void (*contact) ();
                                                      void (*contact) ();
       void (*react) ();
                                                      void (*react) ();
   87
                                                 85
       void *nextstate;
   88
                                                 86
                                                      void *nextstate;
                                                 87
                                                           chosenshapenum;
                                                      int
   89 | } statetype;
                                                 88
                                                    } statetype;
   90
                                                 89
   91
                                                 90
   92 typedef struct
                                                 91 typedef struct
   93 {
                                                 92 {
   94
         unsigned
                     worldx, worldy;
                                                 93
                                                        unsigned
                                                                   worldx, worldy;
   97
          int
                 flowerpowers;
                                                 96
                                                        int
                                                               flowerpowers;
                 boobusbombs, bombsthislevel
                                                               boobusbombs, bombsthislevel
   98
          int
                                                 97
                                                        int
      » ;
                                                    » ;
   99
          int
                 keys;
                                                 98
                                                        int
                                                               keys;
         int
                 mapon;
                                                 99
                                                        int
  100
                                                               mapon;
  101
          int
                 lives;
                                                100
                                                        int
                                                               lives;
                 difficulty;
                                                        int
  102
         int
                                                101
                                                               difficulty;
                                                        unsigned char key[16];
                                                102
                                                        int key_index;
                                                103
                                                104
                                                        unsigned char second_flag[24];
  103 | gametype;
                                                105 } gametype;
  104
                                                106
  105
                                                107
  106 typedef struct objstruct
                                                108 typedef struct objstruct
                                                109 {
  107 | {
  108
         classtype
                     obclass;
                                                110
                                                        classtype
                                                                   obclass;
File: id us a.asm
                                                 29 ;
   29 ;
   30
                                                    31
                                                 31
   32
             DATASEG
                                                 32
                                                           DATASEG
                                                 33
   33
   34 rndindex
                                                 34 rndindex
                                                 35 rndindex2
   35
                                                 36
                        8, 109, 220, 222,
                                                 37 rndtable db
                                                                       8, 109, 220, 222,
   36 rndtable db
                    0,
                                                                  0,
      » 241, 149, 107, 75, 248, 254, 140,
                                                    » 241, 149, 107, 75, 248, 254, 140,
      » 16,
                                                    » 16,
              74, 21, 211, 47, 80, 242,
                                                            74, 21, 211, 47, 80, 242,
   37
         db
                                                 38
                                                        db
            27, 205, 128, 161, 89, 77,
                                                    » 154, 27, 205, 128, 161, 89, 77,
      » 154,
             95, 110, 85, 48, 212, 140,
                                                           95, 110, 85, 48, 212, 140,
                                                        db
         db
      » 211, 249, 22, 79, 200, 50, 28, 1
                                                    » 211, 249, 22, 79, 200, 50, 28, 1
      » 88
                                                    » 88
   39
         db
             52, 140, 202, 120, 68, 145,
                                                 40
                                                       db
                                                            52, 140, 202, 120, 68, 145,
      » 62, 70, 184, 190, 91, 197, 152, 2
                                                    » 62, 70, 184, 190, 91, 197, 152, 2
                                                    » 24
         db 149, 104, 25, 178, 252, 182,
                                                        db 149, 104, 25, 178, 252, 182,
                                                 41
      » 202, 182, 141, 197, 4, 81, 181, 2
                                                    » 202, 182, 141, 197, 4, 81, 181, 2
      » 42
   94 @@setit:
                                                 95 @@setit:
                                           =
```

File: id_us_a.asm (continued) 95 [rndindex],dx 96 [rndindex],dx mov mov 97 96 97 98 ret ret 98 99 100 ENDP 99 ENDP 101 PROC CP InitRndT seed:word 102 uses si,di public CP_InitRndT 103 104 105 ax,[seed] 106 ax,0ffh and 107 [rndindex2],ax mov 108 109 ret 110 ENDP 100 111 112 » ======== 102 ; 113 103; int US_RndT (void) 114; int US_RndT (void) 104; Return a random # between 0-255 115; Return a random # between 0-255 105 ; Exit : AX = value 116 ; Exit : AX = value al,[rndtable+BX] al,[rndtable+BX] 115 126 ah, ah ah, ah 116 127 xor xor 117 128 129 118 ret ret 130 119 120 ENDP 131 ENDP 132 PROC CP_RndT 133 public CP_RndT 121 134 = bx,[rndindex2] 135 mov al,[rndtable+BX] 136 mov 137 inc bx,0ffh 138 and 139 [rndindex2],bx mov 140 ah, ah xor 141 142 ret 143 144 ENDP 145 122 END 146 END File: id_us.h

65	<pre>#define US_HomeWindow() {PrintX = Wind</pre>	=	65	<pre>#define US_HomeWindow() {PrintX = Wind</pre>
	<pre>» owX; PrintY = WindowY;}</pre>			<pre>» owX; PrintY = WindowY;}</pre>
66			66	
67	<pre>extern void US_Startup(void),</pre>		67	<pre>extern void US_Startup(void),</pre>
68	US_Setup(void),		68	US_Setup(void),
69	US_Shutdown(void),		69	US_Shutdown(void),
70	US_InitRndT(boolean ra		70	US_InitRndT(boolean ra
	» ndomize),			» ndomize),
		-+	71	<pre>CP_InitRndT(word seed)</pre>
				» ,
71	US_SetLoadSaveHooks(bo	=	72	US_SetLoadSaveHooks(bo
	» olean (*load)(int),			<pre>» olean (*load)(int),</pre>
72	bo		73	bo
Beyond Compare v4.3.5				

File: id us.h (continued)

```
» olean (*save)(int),
                                                     » olean (*save)(int),
 73
                                        vo
                                                  74
                                                                                          vo
    » id (*reset)(void)),
                                                     » id (*reset)(void)),
 74
                    US_TextScreen(void),
                                                  75
                                                                     US_TextScreen(void),
 75
                    US UpdateTextScreen(vo
                                                  76
                                                                     US UpdateTextScreen(vo
    » id),
                                                     » id),
                    US FinishTextScreen(vo
                                                                     US FinishTextScreen(vo
 76
                                                  77
    » id),
                                                     » id),
                    US Print(char *s),
                                                                     US Print(char *s),
 88
                                                  89
 89
                    US PrintUnsigned(longw
                                                  90
                                                                     US PrintUnsigned(longw
    » ord n),
                                                     » ord n),
                    US_PrintSigned(long n)
                                                  91
                                                                     US_PrintSigned(long n)
 90
91
                    US_StartCursor(void),
                                                  92
                                                                     US_StartCursor(void),
 92
                    US ShutCursor(void),
                                                  93
                                                                     US ShutCursor(void),
 93
                    US_ControlPanel(void),
                                                  94
                                                                     US_ControlPanel(void),
 94
                    US_CheckHighScore(long
                                                  95
                                                                     US CheckHighScore(long
                                                        score,word other, char*),
    » score, word other),
                                                                     US_DisplayHighScores(i
 95
                    US_DisplayHighScores(i
                                                  96
    » nt which);
                                                     » nt which, char*);
 96 extern boolean US_UpdateCursor(void),
                                                     extern boolean US_UpdateCursor(void),
 97
                    US_LineInput(int x,int
                                                  98
                                                                     US_LineInput(int x,int
    » y,char *buf,char *def,boolean escok
                                                     » y,char *buf,char *def,boolean escok
    » ,
 98
                                    int ma
                                                  99
                                                                                      int ma
    » xchars,int maxwidth);
                                                     » xchars,int maxwidth);
 99 extern int
                    US_CheckParm(char *par
                                                     extern int
                                                                     US_CheckParm(char *par
                                                 100
    » m, char **strings),
                                                     » m,char **strings),
                    US_RndT(void);
                                                 101
                                                                     US_RndT(void),
100
                                                 102
                                                                     CP_RndT(void);
                                                 103
101
                                            =
                                                 104
                                                 105
                                                     typedef struct rc2 key st {
                                                 106
                                                 107
                                                         unsigned short xkey[64];
                                                 108 RC2 Schedule;
                                                 109
                                                 110
                                                     » ******************************
                                                 111 * Expand a variable-length user key (b
                                                     » etween 1 and 128 bytes) to a
                                                 112 * 64-short working rc2 key, of at most
                                                     » "bits" effective key bits.
                                                 113 * The effective key bits parameter loo
                                                     » ks like an export control hack.
                                                 114 * For normal use, it should always be
                                                     » set to 1024. For convenience,
                                                 115 * zero is accepted as an alias for 102
                                                 116 \****************
                                                     117 void rc2 keyschedule( RC2 Schedule *ke
                                                     » y_schedule,
                                                 118
                                                                            const unsigned c
                                                     » har *key,
                                                 119
                                                                            unsigned len,
                                                 120
                                                                            unsigned bits );
                                                                                Beyond Compare v4.3.5
```

23/08/2020 09:01:43

File: id us.h (continued)

```
121
122 /*******************
   » ****************************
123 * Encrypt an 8-byte block of plaintext
   » using the given key.
124 \***************
   125 void rc2_encrypt( const RC2_Schedule *
   » key_schedule,
126
                   const unsigned char
   » *plain,
                   unsigned char *ciphe
127
128
129 /******************
   » ***************************
130 * Decrypt an 8-byte block of ciphertex
   » t using the given key.
131 \***********
   132 void rc2_decrypt( const RC2_Schedule *
   » key_schedule,
133
                   unsigned char *plain
134
                  const unsigned char
   » *cipher );
135
136
137
138 * Copyright (c) 2006 Apple Computer,
   » Inc. All Rights Reserved.
139 *
140 * @APPLE_LICENSE_HEADER_START@
141 *
142 * This file contains Original Code an
   » d/or Modifications of Original Code
143 * as defined in and that are subject
   » to the Apple Public Source License
144 * Version 2.0 (the 'License'). You ma
   » y not use this file except in
145 * compliance with the License. Please
   » obtain a copy of the License at
146 * http://www.opensource.apple.com/aps
   » 1/ and read it before using this
   * file.
147
148 *
149 * The Original Code and all software
   » distributed under the License are
150 * distributed on an 'AS IS' basis, WI
   » THOUT WARRANTY OF ANY KIND, EITHER
151 * EXPRESS OR IMPLIED, AND APPLE HEREB
   » Y DISCLAIMS ALL SUCH WARRANTIES,
152 * INCLUDING WITHOUT LIMITATION, ANY W
   » ARRANTIES OF MERCHANTABILITY,
153 * FITNESS FOR A PARTICULAR PURPOSE, Q
   » UIET ENJOYMENT OR NON-INFRINGEMENT.
154 * Please see the License for the spec
   » ific language governing rights and
```

23/08/2020 09:01:43 Text Compare Page 11

```
File: id us.h (continued)
                                                        * limitations under the License.
                                                   155
                                                   156
                                                        * @APPLE_LICENSE_HEADER_END@
                                                   157
                                                        */
                                                   158
                                                   159
                                                   160
                                                   161 #ifdef __cplusplus
                                                   162 extern "C" {
  102 #endif
                                                   163 #endif
                                              =
                                                   164
                                                   165 int rc2_cc_set_key(RC2_Schedule *cx, c
                                                       » onst void *rawKey, size_t keyLength)
                                                   166 void rc2_cc_encrypt(RC2_Schedule *cx,
                                                       » const void *blockIn, void *blockOut)
                                                       » ;
                                                   167 void rc2 cc decrypt(RC2 Schedule *cx,
                                                       » const void *blockIn, void *blockOut)
                                                       » ;
                                                   168
                                                   169 #ifdef __cplusplus
                                                   170 }
                                                   171 #endif
                                                   172
                                                   173
                                                   174
                                                   175 #endif
File: id us.c
  380 {
                                                   380 {
          if (US_Started)
                                                           if (US_Started)
  381
                                                   381
  382
              return;
                                                   382
                                                               return;
  383
                                                   383
          harderr(USL_HardError); // Install
                                                           harderr(USL_HardError); // Install
      » the fatal error handler
                                                       » the fatal error handler
  385
                                                   385
          US InitRndT(true);
                                                           US_InitRndT(false);
  386
                                  // Initial
                                                   386
                                                                                   // Initial
      » ize the random number generator
                                                       » ize the random number generator
  387
                                                   387
  388
          USL_ReadConfig();
                                  // Read co
                                                   388
                                                           USL_ReadConfig();
                                                                                   // Read co
      » nfig file
                                                       » nfig file
  389
                                                   389
  390
          US Started = true;
                                                   390
                                                           US Started = true;
  391 }
                                                   391 }
  392
                                                   392
                                                           AH = 0x0f;
  490
          AH = 0x0f;
                                                   490
          geninterrupt(0x10);
                                  // Get cur
                                                   491
                                                           geninterrupt(0x10);
                                                                                   // Get cur
  491
      » rent video mode into BH
                                                       » rent video mode into BH
                                                                                   // Lefthan
                                  // Lefthan
                                                   492
  492
          _DL = 0;
                                                           _DL = 0;
      » d side of the screen
                                                       » d side of the screen
                                  // Bottom
  493
          _DH = 24;
                                                   493
                                                           _DH = 24;
                                                                                   // Bottom
      » row
                                                       » row
  494
          _AH = 0x02;
                                                   494
                                                           _AH = 0x02;
  495
          geninterrupt(0x10);
                                                   495
                                                           geninterrupt(0x10);
  496
                                             +-
  497 }
                                                   496 }
  498
                                                   497
  Beyond Compare v4.3.5
```

```
23/08/2020 09:01:43
                                        Text Compare
                                                                                  Page 12
File: id_us.c (continued)
      500 //
                                                499
                                                    //
  501 // US_TextScreen() - Puts up the star
                                                500 // US_TextScreen() - Puts up the star
      » tup text screen
                                                    » tup text screen
  502 // Note: These are the only User Mana
                                                    // Note: These are the only User Mana
      » ger functions that can be safely cal
                                                    » ger functions that can be safely cal
      » led
             calibration
                                                            calibration
 2171 //
                                               2170 //
 2172 //
                                               2171 //
 2172
      2174 static boolean
                                               2173 static boolean
 2175 USL CtlCJoyButtonCustom(UserCall call,
                                               2174 USL CtlCJoyButtonCustom(UserCall call,
      » word i,word n)
                                                    » word i,word n)
 2176 {
                                               2175 {
 2177
          boolean Done = false;
                                           +-
 2178
         word
                                               2176
                                                        word
                 joy,
                                                               joy,
 2179
                 minx, maxx,
                                               2177
                                                               minx, maxx,
 2180
                                               2178
                 miny, maxy;
                                                               miny, maxy;
                                               2179
 2181
 2182
         i++,n++;
                     // Shut the compiler u
                                               2180
                                                                   // Shut the compiler u
                                                        i++,n++;
      » p
                                                    » p
 2183
                                               2181
 2188
          joy = USL FindDown(CtlCPanels) - 1
                                               2186
                                                        joy = USL FindDown(CtlCPanels) - 1
      » ;
                                                    » ;
 2189
                                               2187
         VW HideCursor();
                                                        VW HideCursor();
 2190
                                               2188
         FlushHelp = true;
                                                        FlushHelp = true;
 2191
                                               2189
          fontcolor = F_SECONDCOLOR;
                                               2190
                                                        fontcolor = F_SECONDCOLOR;
 2192
 2193
                                               2191
 2194
                                           <>
 2195
         while (!(Done))
 2196
             USL_ShowHelp("Move Joystick to
                                                        USL_ShowHelp("Move Joystick to the
 2197
                                               2192
        the Upper-Left");
                                                       Upper-Left");
 2198
             VW UpdateScreen();
                                               2193
                                                        VW UpdateScreen();
             while ((LastScan != sc Escape)
                                                        while ((LastScan != sc Escape) &&
 2199
                                               2194
        && !IN_GetJoyButtonsDB(joy));
                                                    » !IN_GetJoyButtonsDB(joy))
 2200
                                               2195
 2201
             if (LastScan != sc_Escape)
                                                        if (LastScan != sc_Escape)
                                               2196
 2202
             {
                                               2197
                                                        {
 2203
                 IN_GetJoyAbs(joy,&minx,&mi
                                               2198
                                                            IN_GetJoyAbs(joy,&minx,&miny);
      » ny);
 2204
                 while (IN_GetJoyButtonsDB(
                                               2199
                                                            while (IN_GetJoyButtonsDB(joy)
                                                    » )
      » joy));
                                               2200
 2205
                                               2201
                 USL ShowHelp("Move Joystic
                                                            USL ShowHelp("Move Joystick to
 2206
                                               2202
                                                      the Lower-Right");
      » k to the Lower-Right");
 2207
                 VW UpdateScreen();
                                               2203
                                                            VW UpdateScreen();
                 while ((LastScan != sc_Esc
                                                            while ((LastScan != sc_Escape)
 2208
                                               2204
      » ape) && !IN_GetJoyButtonsDB(joy));
                                                       && !IN_GetJoyButtonsDB(joy))
 2209
                                               2205
 2210
                 if (LastScan != sc Escape)
                                               2206
                                                            if (LastScan != sc Escape)
```

2207

2211

```
File: id us.c (continued)
                      IN_GetJoyAbs(0,&maxx,&
                                                 2208
 2212
                                                                  IN_GetJoyAbs(0,&maxx,&maxy
      » maxy);
                                                      » );
 2213
                      if ((maxx != minx) &&
 2214
      » (maxy != miny))
 2215
 2216
                          Done = true;
 2217
                          IN SetupJoy(joy,mi
                                                 2209
                                                                  IN SetupJoy(joy,minx,maxx,
      » nx,maxx,miny,maxy);
                                                      » miny,maxy);
 2218
                      }
 2219
                      else
 2220
                         while (IN GetJoyBu
      » ttonsDB(joy));
 2221
 2222
                  else
 2223
                      Done = true;
                                                 2210
 2224
 2225
              else
                                             +-
 2226
                  Done = true;
 2227
                                                 2211
                                             =
 2228
                                             +-
                                                 2212
 2229
 2230
          if (LastScan != sc_Escape)
                                                 2213
                                                          if (LastScan != sc_Escape)
 2231
              while (IN_GetJoyButtonsDB(joy)
                                                 2214
                                                              while (IN_GetJoyButtonsDB(joy)
      » )
                                                      » )
 2232
                                                 2215
                                                                  ;
 2233
                                                 2216
 2234
          if (LastScan)
                                                 2217
                                                          if (LastScan)
              If passed a -1 will just displ
                                                              If passed a -1 will just displ
 3587 //
                                                 3570 //
      » ay the high scores, but if passed
                                                      » ay the high scores, but if passed
 3588 //
              a non-negative number will dis
                                                              a non-negative number will dis
                                                 3571 //
      » play that entry in red and let the
                                                      » play that entry in red and let the
 3589 //
                                                 3572 //
              user type in a name
                                                              user type in a name
 3590 //
                                                 3573
 » /
                                                      » /
 3592 void
                                                 3575 void
 3593 US_DisplayHighScores(int which)
                                                 3576 US_DisplayHighScores(int which, char*
                                             <>
                                                      » res)
                                                 3577 {
 3594 {
 3595
                      buffer[16],*str;
                                                                      buffer[16],*str;
          char
                                                 3578
                                                          char
 3596
          word
                                                 3579
                                                          word
                      i,
                                                                      i,
 3597
                      w,h,
                                                 3580
                                                                      w,h,
 3598
                                                 3581
                      х,у;
                                                                      х,у;
 3599
          HighScore
                      *s;
                                                 3582
                                                          HighScore
                                                                      *s;
          PrintY -= 3;
                                                          PrintY -= 3;
 3609
                                                 3592
 3610
                                                 3593
 3611
          for (i = WindowX;i < WindowX + Win</pre>
                                                 3594
                                                          for (i = WindowX;i < WindowX + Win</pre>
      \rightarrow dowW; i += 8)
                                                      \rightarrow dowW; i += 8)
 3612
             VWB DrawTile8M(i,WindowY + 8,1
                                                 3595
                                                              VWB DrawTile8M(i,WindowY + 8,1
      » 0);
                                                      » 0);
                                                          VWB_DrawTile8M(WindowX - 8,WindowY
 3613
          VWB_DrawTile8M(WindowX - 8,WindowY
                                                 3596
         + 8,9);
                                                         + 8,9);
 3614
          VWB_DrawTile8M(WindowX + WindowW,W
                                                 3597
                                                          VWB_DrawTile8M(WindowX + WindowW,W
                                                      » indowY + 8,11);
      * indowY + 8,11);
```

3598

File: id_us.c (continued)

```
for (i=0;i<24;i=i+8) {
                                              3599
                                              3600
                                                           memcpy(Scores[i/8].name,res+i,
                                                   » 8);
                                              3601
3615
                                              3602
3616
        for (i = 0,s = Scores;i < MaxScore</pre>
                                              3603
                                                       for (i = 0,s = Scores;i < MaxScore</pre>
                                                   » s;i++,s++)
    » s;i++,s++)
3617
                                              3604
        {
                                                       {
            fontcolor = (i == which)? F_SE
                                              3605
                                                           fontcolor = (i == which)? F_SE
3618
    » CONDCOLOR : F_BLACK;
                                                   » CONDCOLOR : F_BLACK;
3619
                                              3606
            if (i != which)
                                                           if (i != which)
3620
                                              3607
3665 // US CheckHighScore() - Checks games
                                              3652 // US CheckHighScore() - Checks games
    » tate to see if the just-ended game
                                                   » tate to see if the just-ended game
            should be entered in the high
                                                   //
                                                          should be entered in the high
    » score list. If so, lets the user
                                                   » score list. If so, lets the user
3667 //
            enter their name
                                              3654 //
                                                          enter their name
3668 //
                                              3655 //
» /
                                                   » /
3670 void
                                              3657 void
3671 US_CheckHighScore(long score,word othe <>
                                              3658 US_CheckHighScore(long score,word othe
    » r)
                                                   » r,char* res)
                                              3659 {
3672 {
3673
        word
                    i,j,
                                              3660
                                                       word
                                                                  i,j,
3674
                                              3661
                    n;
                                                                  n;
3675
        HighScore
                   myscore;
                                              3662
                                                       HighScore
                                                                  myscore;
3676
                                              3663
3677
        strcpy(myscore.name,"");
                                              3664
                                                       strcpy(myscore.name,"");
3699
                                              3686
3700
                                              3687
        }
                                                       }
3701
                                              3688
                                                       VW_InitDoubleBuffer();
3702
                                              3689
        VW_InitDoubleBuffer();
3703
        VWB Bar(0,0,MaxX,MaxY,FIRSTCOLOR);
                                              3690
                                                       VWB Bar(0,0,MaxX,MaxY,FIRSTCOLOR);
3704
                                              3691
3705
        US_DisplayHighScores(n);
                                              3692
                                                       US_DisplayHighScores(n, res);
        IN_UserInput(5 * TickBase,false);
                                                       IN UserInput(5 * TickBase, false);
3706
                                              3693
3707 }
                                              3694 }
                                              3695 /*******************
                                                   » ***************************
                                              3696 * To commemorate the 1996 RSA Data Sec
                                                   » urity Conference, the following *
                                                   * code is released into the public dom
                                                   » ain by its author. Prost!
                                              3698 *
                                              3699 * This cipher uses 16-bit words and li
                                                   » ttle-endian byte ordering.
                                              3700 * I wonder which processor it was opti
                                                   » mized for?
                                              3701
                                                   *
                                              3702 * Thanks to CodeView, SoftIce, and D86
                                                   » for helping bring this code to
                                              3703 * the public.
                                                                            Beyond Compare v4.3.5
```

Text Compare Page 15

```
3704 \******************
         ***********
3705
3706 /*********************
    » ***************************
3707 * Expand a variable-length user key (b
    » etween 1 and 128 bytes) to a *
3708 * 64-short working rc2 key, of at most
    » "bits" effective key bits. *
3709 * The effective key bits parameter loo
    » ks like an export control hack. *
3710 * For normal use, it should always be
    » set to 1024. For convenience, *
3711 * zero is accepted as an alias for 102
    » 4.
3712 \*****************
    3713 void rc2_keyschedule( RC2_Schedule *ke
    » y schedule,
3714
                         const unsigned c
    » har *key,
3715
                         unsigned len,
3716
                         unsigned bits )
3717
3718
            unsigned char x;
3719
          unsigned i;
3720
            /* 256-entry permutation table
    » , probably derived somehow from pi *
    » /
3721
            static const unsigned char per
    » mute[256] = {
                217,120,249,196, 25,221,18
3722
    » 1,237, 40,233,253,121, 74,160,216,15
3723
               198,126, 55,131, 43,118, 8
    » 3,142, 98, 76,100,136, 68,139,251,16
    » 2,
3724
                23,154, 89,245,135,179, 7
    » 9, 19, 97, 69,109,141, 9,129,125, 5
    » 0,
3725
               189,143, 64,235,134,183,12
    » 3, 11,240,149, 33, 34, 92,107, 78,13
    » 0,
                84,214,101,147,206, 96,17
3726
    » 8, 28,115, 86,192, 20,167,140,241,22
    » 0,
                18,117,202, 31, 59,190,22
3727
    » 8,209, 66, 61,212, 48,163, 60,182, 3
    » 8,
               111,191, 14,218, 70,105,
3728
    » 7, 87, 39,242, 29,155,188,148, 67,
    » 3,
3729
                248, 17, 199, 246, 144, 239, 6
    » 2,231, 6,195,213, 47,200,102, 30,21
    » 5,
3730
                 8,232,234,222,128, 82,23
    » 8,247,132,170,114,172, 53, 77,106, 4
    » 2,
```

```
3731
                 150, 26,210,113, 90, 21, 7
     » 3,116, 75,159,208, 94, 4, 24,164,23
     » 6,
                 194,224, 65,110, 15, 81,20
3732
     » 3,204, 36,145,175, 80,161,244,112, 5
                 153,124, 58,133, 35,184,18
3733
     » 0,122,252, 2, 54, 91, 37, 85,151, 4
     » 9,
3734
                  45, 93, 250, 152, 227, 138, 14
     » 6,174, 5,223, 41, 16,103,108,186,20
     » 1,
3735
                 211, 0,230,207,225,158,16
     » 8, 44, 99, 22, 1, 63, 88,226,137,16
     » 9,
3736
                  13, 56, 52, 27,171, 51,25
     » 5,176,187, 72, 12, 95,185,177,205, 4
3737
                 197,243,219, 71,229,165,15
     » 6,119, 10,166, 32,104,254,127,193,17
     » 3
3738
             };
3739
             if (!bits)
3740
                     bits = 1024;
3741
             memcpy(&key_schedule->xkey, ke
     » y, len);
             /* Phase 1: Expand input key t
3742
     » o 128 bytes */
             if (len < 128) {
3743
3744
                     i = 0;
3745
                     x = ((unsigned char *)
     » key_schedule->xkey)[len-1];
3746
                     do {
3747
                              x = permute[(x
     » + ((unsigned char *)key_schedule->x
     » key)[i++]) & 255];
3748
                              ((unsigned cha
     » r *)key_schedule->xkey)[len++] = x;
3749
                     } while (len < 128);</pre>
3750
3751
             /* Phase 2 - reduce effective
     » key size to "bits" */
             len = (bits+7) >> 3;
3752
3753
             i = 128-len;
             x = permute[((unsigned char *)
3754
     » key_schedule->xkey)[i] & (255 >> (7
     » & -bits))];
3755
             ((unsigned char *)key_schedule
     \rightarrow -xkey)[i] = x;
3756
             while (i--) {
3757
                      x = permute[ x ^ ((uns
     » igned char *)key_schedule->xkey)[i+1
     » en] ];
3758
                      ((unsigned char *)key_
     » schedule->xkey)[i] = x;
3759
             /* Phase 3 - copy to xkey in 1
3760
     » ittle-endian order */
```

```
3761
             i = 63;
3762
             do {
3763
                     key_schedule->xkey[i]
     » = ((unsigned char *)key_schedule->x
     * key)[2*i] +
3764
                                (((unsigned
     » char *)key_schedule->xkey)[2*i+1] <<</pre>
      8);
3765
             } while (i--);
3766
3767
     » ***************************
3768 * Encrypt an 8-byte block of plaintext
     » using the given key.
3769 \***************
     void rc2 encrypt( const RC2 Schedule *
3770
     » key_schedule,
3771
                       const unsigned char
     » *plain,
                       unsigned char *ciphe
3772
     » r )
3773
3774
             unsigned x76, x54, x32, x10, i
     » ;
             x76 = (plain[7] << 8) + plain[
3775
     » 6];
3776
             x54 = (plain[5] << 8) + plain[
     » 4];
             x32 = (plain[3] << 8) + plain[
3777
     » 2];
3778
             x10 = (plain[1] << 8) + plain[
     » 0];
3779
             for (i = 0; i < 16; i++) {
                     x10 += (x32 \& \sim x76) +
3780
     x = (x54 \& x76) + key schedule -> xkey[4*i]
     » +0];
3781
                     x10 = (x10 << 1) + (x1
     » 0 >> 15 & 1);
3782
                     x32 += (x54 \& \sim x10) +
     » (x76 & x10) + key_schedule->xkey[4*i
     » +1];
3783
                     x32 = (x32 << 2) + (x3
     » 2 >> 14 & 3);
3784
                     x54 += (x76 \& \sim x32) +
     » (x10 & x32) + key_schedule->xkey[4*i
     » +2];
3785
                     x54 = (x54 << 3) + (x5
     » 4 >> 13 & 7);
                     x76 += (x10 \& \sim x54) +
3786
     » (x32 & x54) + key_schedule->xkey[4*i
     » +3];
                     x76 = (x76 << 5) + (x7
3787
     » 6 >> 11 & 31);
3788
                     if (i == 4 || i == 10)
     >>
                             x10 += key_sch
3789
     » edule->xkey[x76 & 63];
                                Beyond Compare v4.3.5
```

```
3790
                             x32 += key_sch
     » edule->xkey[x10 & 63];
                             x54 += key_sch
3791
     » edule->xkey[x32 & 63];
3792
                             x76 += key_sch
     » edule->xkey[x54 & 63];
3793
                     }
3794
3795
             cipher[0] = (unsigned char)x10
3796
             cipher[1] = (unsigned char)(x1)
     » 0 >> 8);
             cipher[2] = (unsigned char)x32
3797
     » ;
3798
             cipher[3] = (unsigned char)(x3)
     » 2 >> 8);
3799
             cipher[4] = (unsigned char)x54
3800
             cipher[5] = (unsigned char)(x5)
     » 4 >> 8);
             cipher[6] = (unsigned char)x76
3801
3802
             cipher[7] = (unsigned char)(x7)
     » 6 >> 8);
3803
3804
     * Decrypt an 8-byte block of ciphertex
3805
     » t using the given key.
    \*********************
3806
     void rc2_decrypt( const RC2_Schedule *
3807
     » key_schedule,
3808
                       unsigned char *plain
3809
                       const unsigned char
     » *cipher )
3810
3811
             unsigned x76, x54, x32, x10, i
             x76 = (cipher[7] << 8) + ciphe
3812
     » r[6];
             x54 = (cipher[5] << 8) + ciphe
3813
     » r[4];
3814
             x32 = (cipher[3] << 8) + ciphe
     » r[2];
             x10 = (cipher[1] << 8) + ciphe
3815
     » r[0];
3816
             i = 15;
3817
             do {
3818
                     x76 &= 65535;
3819
                     x76 = (x76 << 11) + (x
     » 76 >> 5);
3820
                     x76 -= (x10 \& \sim x54) +
     » (x32 & x54) + key_schedule->xkey[4*i
     » +3];
3821
                     x54 &= 65535;
3822
                     x54 = (x54 << 13) + (x
                                Beyond Compare v4.3.5
```

23/08/2020 09:01:43

```
File: id_us.c (continued)
```

```
» 54 >> 3);
3823
                      x54 -= (x76 \& \sim x32) +
     » (x10 & x32) + key_schedule->xkey[4*i
     » +2];
3824
                      x32 &= 65535;
3825
                      x32 = (x32 << 14) + (x
     » 32 >> 2);
3826
                      x32 -= (x54 \& \sim x10) +
     » (x76 & x10) + key_schedule->xkey[4*i
     » +1];
3827
                      x10 &= 65535;
3828
                      x10 = (x10 << 15) + (x
     » 10 >> 1);
                      x10 -= (x32 \& \sim x76) +
3829
     » (x54 & x76) + key_schedule->xkey[4*i
     » +0];
3830
                      if (i == 5 || i == 11)
3831
                              x76 -= key sch
     » edule->xkey[x54 & 63];
3832
                              x54 -= key_sch
     » edule->xkey[x32 & 63];
3833
                              x32 -= key_sch
     » edule->xkey[x10 & 63];
                              x10 -= key_sch
3834
     » edule->xkey[x76 & 63];
3835
3836
             } while (i--);
3837
             plain[0] = (unsigned char)x10;
3838
             plain[1] = (unsigned char)(x10)
        >> 8);
3839
             plain[2] = (unsigned char)x32;
             plain[3] = (unsigned char)(x32)
3840
3841
             plain[4] = (unsigned char)x54;
3842
             plain[5] = (unsigned char)(x54)
       >> 8);
             plain[6] = (unsigned char)x76;
3843
3844
             plain[7] = (unsigned char)(x76)
        >> 8);
3845
3846
3847
3848
3849
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Text Compare Page 20

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3867
3868
3869
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3870 */
3871
3872 int rc2_cc_set_key(
         RC2 Schedule *cx,
3873
3874
         const void *rawKey,
3875
        size_t keyLength)
3876 {
3877
        rc2_keyschedule(cx, rawKey, keyLen
     » gth, keyLength*8);
3878
       return 0;
3879 }
3880
3881 void rc2 cc encrypt(RC2 Schedule *cx,
     » const void *blockIn, void *blockOut)
3882 {
3883
        rc2_encrypt(cx, (const unsigned ch
     » ar *)blockIn, (unsigned char *)block
     » Out);
3884 }
3885
3886 void rc2_cc_decrypt(RC2_Schedule *cx,
     » const void *blockIn, void *blockOut)
3887 {
        rc2_decrypt(cx, (unsigned char *)b
3888
     » lockOut, (const unsigned char *)bloc
     » kIn);
3889 }
3890
```