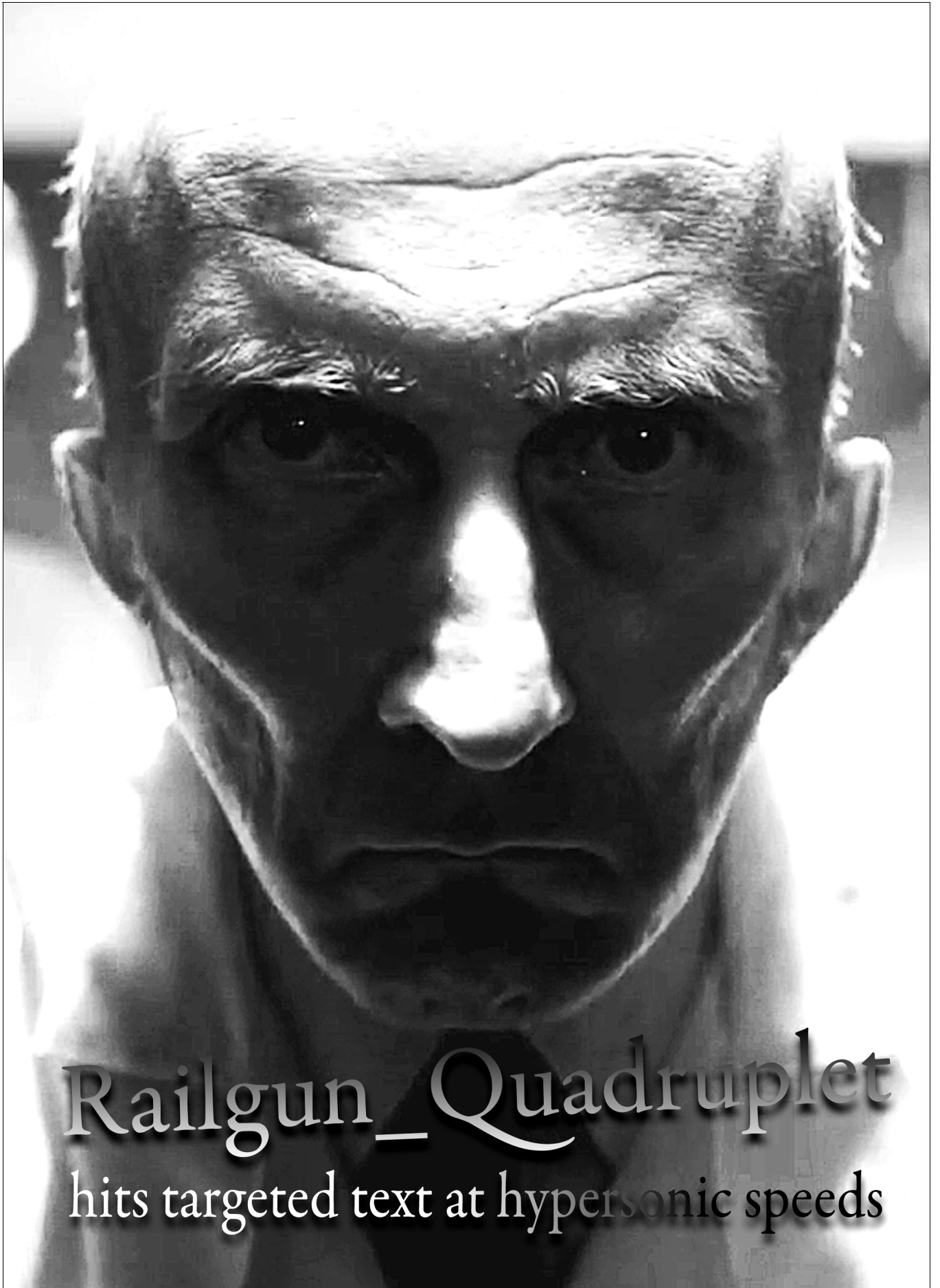


Railgun_Sekireigan



Railgun_Quadruplet
hits targeted text at hypersonic speeds

鶺鴒眼

Sekireigan

FASTEST MEMMEM

```
001 // "Sekirei"|鶺鴒 are superpowered beings with a different code similar to a human's.
002 // wagtail - Any of various chiefly Old World birds of the family Motacillidae, having a slender body with a long tail that constantly wags.
003 // wag - A humorous or droll person; a wit.
004 // wag -
005 // v. intr.
006 // 1. To move briskly and repeatedly from side to side, to and fro, or up and down.
007 // 2. To move rapidly in talking. Used of the tongue.
008 // 3. To walk with a clumsy sway; waddle.
009 // 4. Archaic: To be on one's way; depart.
010 // v. tr.
011 // To move (a body part) rapidly from side to side or up and down, as in playfulness, agreement, admonition, or chatter.
012 // /HERITAGE/
013 // "Kusano"|草野|Sekirei #108, commonly referred to as "Kuu-chan" or "Ku", is the youngest of Minato's Sekirei, and is
    also known as the "Green Girl"|緑の少女|Midori no Shōjo by other Sekirei. At the beginning of the story, she was hiding in a botanical
    garden after being traumatized when Mikogami attempted to forcibly wing her. Kusano communicated with Minato telepathically and led him through
    the garden until he found her. Kusano refers to Minato as "onii-chan" (big brother), and is the most attached to him. She does not like
    fighting or quarreling and she can be seen stopping them when they start. She is also very impressionable and often copies Musubi, Tsukiumi and
    Kazehana's mannerisms. She VERY much wants to be Minato's wife when she grows up, and is highly possessive of him at times, even biting her
    fellow sekirei when they start to get too close to him.
014 // Apart from its unusual [[plumage]] pattern and habitat, the Forest wagtail differs from its "Motacilla" relatives in its strange habit of
    swaying its tail from side to side, not wagging it up and down like other wagtails. The Japanese name "Jokofury-sekirei" (=sideways-swinging
    wagtail) is based on this habit.
015 // "Kazehana"|風花|Sekirei #03 is a tall and extremely buxom Sekirei whose first encounter with Minato was to stumble into his bed in a
    drunken stupor.
016 // Kazehana displays an extremely relaxed personality, preferring to spend most of her time lounging and drinking "[[sake]]", and often
    becomes giddy when discussing matters of love. However, when she becomes serious she displays a lot of power and lets nobody (with the
    exception of Minaka, Miya, and Minato) talk down to her.
017 // Kazehana has the ability to control and manipulate wind, which also grants her a limited ability of flight.
018 // Her known attacks is the |Flower whirlwind|花旋風|Hana Senpū ...
019 // ... who teaches him the Sekireigan (Eye of the Sekirei). With this he is able to move extremely fast and attack from many angles
    simultaneously.
020 // His sword techniques are unnamed, but he uses the Sekireigan, which was taught to him by Anri. Yukimura can utilize the Sekireigan to access
    extreme speed.
021 // /wikipedia/
022 // Version: This is Railgun_Sekireigan revision 2, copleft 2013-Oct-16, Kaze
023 // Purpose: This is optimized strstr-like (memmem in fact) function for short needles up to 255 bytes ... and beyond.
024 // Caution: For better speed the case 'if (cbPattern==1)' was removed, so Pattern must be longer than 1 char.
025 #define _rotl_KAZE(x, n) (((x) <&lt; (n)) | ((x) >> (32-(n))))
026 #define HaystackThresholdSekirei 961 // Quadruplet works up to this value, if bigger then BMH2 takes over.
027 #define NeedleThresholdBIGSekirei 12+40 // Should be bigger than 'HasherezadeOrder'. BMH2 works up to this value (inclusive).
028 #define HashTableSizeSekirei 17-1 // In fact the real size is -3, because it is BITwise, when 17-3=14 it means 16KB, (17-1)-3=13 it means 8KB.
029 char * Railgun_Sekireigan_Bari (char * pbTarget, char * pbPattern, uint32_t cbTarget, uint32_t cbPattern)
030 {
031     char * pbTargetMax = pbTarget + cbTarget;
032     register uint32_t ulHashPattern;
033     register uint32_t ulHashTarget;
034     signed long count;
035     signed long countSTATIC;
036
037     unsigned char SINGLET;
038     uint32_t Quadruplet2nd;
039     uint32_t Quadruplet3rd;
040     uint32_t Quadruplet4th;
041
042     uint32_t AdvanceHopperGrass;
043
044     long i; //BMH needed
```

```

045     int a, j;
046     unsigned char bm_Horspool_Order2[256*256]; // BMHSS(Elsiane) needed, 'char' limits patterns to 255, if 'long' then table becomes 256KB,
grrr.
047     uint32_t Gulliver; // or unsigned char or unsigned short
048
049     unsigned char bm_Hasherezade_HASH[1&lt;&lt;(HashTableSizeSekirei-3)];
050     uint32_t hash32;
051     uint32_t hash32B;
052     uint32_t hash32C;
053
054     if (cbPattern &gt; cbTarget) return(NULL);
055
056     if ( cbPattern&lt;4 ) {
057
058         pbTarget = pbTarget+cbPattern;
059         ulHashPattern = ( *(char *) (pbPattern)&lt;&lt;8 ) + *(pbPattern+(cbPattern-1));
060         if ( cbPattern==3 ) {
061             for ( ;; ) {
062                 if ( ulHashPattern == ( *(char *) (pbTarget-3)&lt;&lt;8 ) + *(pbTarget-1) ) {
063                     if ( *(char *) (pbPattern+1) == *(char *) (pbTarget-2) ) return((pbTarget-3));
064                 }
065                 if ( (char) (ulHashPattern&gt;&gt;8) != *(pbTarget-2) ) {
066                     pbTarget++;
067                     if ( (char) (ulHashPattern&gt;&gt;8) != *(pbTarget-2) ) pbTarget++;
068                 }
069                 pbTarget++;
070                 if (pbTarget &gt; pbTargetMax) return(NULL);
071             }
072         } else {
073             for ( ;; ) {
074                 if ( ulHashPattern == ( *(char *) (pbTarget-2)&lt;&lt;8 ) + *(pbTarget-1) ) return((pbTarget-2));
075                 if ( (char) (ulHashPattern&gt;&gt;8) != *(pbTarget-1) ) pbTarget++;
076                 pbTarget++;
077                 if (pbTarget &gt; pbTargetMax) return(NULL);
078             }
079         }
080     } else {
081         if (cbTarget&lt;HaystackThresholdSekirei) { // This value is arbitrary (don't know how exactly), it ensures (at least must)
082             better performance than 'Boyer_Moore_Horspool'.
083
084             pbTarget = pbTarget+cbPattern;
085             ulHashPattern = *(uint32_t *) (pbPattern);
086             SINGLET = ulHashPattern & 0xFF;
087             Quadruplet2nd = SINGLET&lt;&lt;8;
088             Quadruplet3rd = SINGLET&lt;&lt;16;
089             Quadruplet4th = SINGLET&lt;&lt;24;
090             for ( ;; ) {
091                 AdvanceHopperGrass = 0;
092                 ulHashTarget = *(uint32_t *) (pbTarget-cbPattern);
093                 if ( ulHashPattern == ulHashTarget ) { // Three unnecessary comparisons here, but 'AdvanceHopperGrass' must be
094                     calculated - it has a higher priority.
095                     count = cbPattern-1;
096                     while ( count & & *(char *) (pbPattern+(cbPattern-count)) == *(char *) (pbTarget-count) ) {
097                         if ( cbPattern-1==AdvanceHopperGrass+count & & SINGLET != *(char *) (pbTarget-count) )
098                             AdvanceHopperGrass++;
099                         count--;
100                     }
101                     if ( count == 0 ) return((pbTarget-cbPattern));
102                 } else { // The goal here: to avoid memory accesses by stressing the registers.
103                     if ( Quadruplet2nd != (ulHashTarget & 0x000FF00) ) {
104                         AdvanceHopperGrass++;
105                         if ( Quadruplet3rd != (ulHashTarget & 0x00FF0000) ) {
106                             AdvanceHopperGrass++;
107                             if ( Quadruplet4th != (ulHashTarget & 0xFF000000) ) AdvanceHopperGrass++;
108                         }
109                     }
110                     AdvanceHopperGrass++;
111                     pbTarget = pbTarget + AdvanceHopperGrass;
112                     if (pbTarget &gt; pbTargetMax) return(NULL);
113                 }
114             } else { //if (cbTarget&lt;HaystackThresholdSekirei)
115
116                 if ( cbPattern&lt;=NeedleThresholdBIGSekirei ) {
117
118                     countSTATIC = cbPattern-2;
119                     ulHashPattern = *(uint32_t *) (pbPattern); // First four bytes
120                     //ulHashTarget = *(unsigned short *) (pbPattern+cbPattern-1-1); // Last two bytes
121                     i=0;
122                     //for (a=0; a &lt; 256*256; a++) {bm_Horspool_Order2[a]= cbPattern-1;} // cbPattern-(Order-1) for Horspool; 'memset' if
123                     not optimized
124                     //for (j=0; j &lt; cbPattern-1; j++) bm_Horspool_Order2[*(unsigned short *) (pbPattern+j)]=j; // Rightmost
125                     appearance/position is needed
126                     for (a=0; a &lt; 256*256; a++) {bm_Horspool_Order2[a]=0;}
127                     for (j=0; j &lt; cbPattern-1; j++) bm_Horspool_Order2[*(unsigned short *) (pbPattern+j)]=1;
128                     while (i &lt;= cbTarget-cbPattern) {

```

```

127         Gulliver = 1;
128         if ( bm_Horspool_Order2[* (unsigned short *)&pbTarget[i+cbPattern-1-1]] != 0 ) {
129             //if ( Gulliver == 1 ) { // Means the Building-Block order 2 is found somewhere i.e. NO MAXIMUM SKIP
130                 if ( *(uint32_t *)&pbTarget[i] == ulHashPattern ) {
131                     count = countSTATIC; // Last two chars already matched, to be fixed with -2
132                     while ( count !=0 && *(char *) (pbPattern+(countSTATIC-count)+4) == *(char
*)(&pbTarget[i]+(countSTATIC-count)+4) )
133                         count--;
134                     if ( count == 0 ) return(pbTarget+i);
135                 }
136             //}
137             // Trying to strengthen the skip performance... here ONLY one additional lookup, for better/longer
138             jumps more such lookups, unrolled to be added.
139             if ( bm_Horspool_Order2[* (unsigned short *)&pbTarget[i+cbPattern-1-1-2]] == 0 ) Gulliver =
cbPattern-(2-1)-2;
140             } else Gulliver = cbPattern-(2-1);
141             i = i + Gulliver;
142             //GlobalI++; // Comment it, it is only for stats.
143         }
144         return(NULL);
145     } else { // if ( cbPattern<=NeedleThresholdBIGSekirei )
146     // MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() [
147         countSTATIC = cbPattern-2-2;
148
149         ulHashPattern = *(uint32_t *) (pbPattern); // First four bytes
150         //ulHashTarget = *(unsigned short *) (pbPattern+cbPattern-1-1); // Last two bytes
151
152         i=0;
153
154         for (a=0; a <&lt; (HashTableSizeSekirei-3); a++) {bm_Hasherezade_HASH[a]= 0;} // to-do: 'memset' if not
155         optimized
156         // cbPattern - Order + 1 i.e. number of BBs for 11 'fastest fox' 11-8+1=4: 'fastest ', 'astest f', 'stest fo', 'test
fox'
157         for (j=0; j <&lt; cbPattern-12+1; j++) {
158             hash32 = (2166136261 ^ *(uint32_t *) (pbPattern+j+0)) * 709607;
159             hash32B = (2166136261 ^ *(uint32_t *) (pbPattern+j+4)) * 709607;
160             hash32C = (2166136261 ^ *(uint32_t *) (pbPattern+j+8)) * 709607;
161             hash32 = (hash32 ^ _rotl_KAZE(hash32C,5) ) * 709607;
162             hash32 = (hash32 ^ _rotl_KAZE(hash32B,5) ) * 709607;
163             hash32 = ( hash32 ^ (hash32 && 16) ) & ( (1<&lt;(HashTableSizeSekirei))-1 );
164             bm_Hasherezade_HASH[hash32&&3]= bm_Hasherezade_HASH[hash32&&3] | (1<&lt;(hash32&&0x7));
165         }
166
167         while ( i <= cbTarget-cbPattern ) {
168             Gulliver = 1; // Assume minimal jump as initial value.
169             // The goal: to jump when the rightmost 8bytes (Order 8 Horspool) of window do not look like any of Needle
170             prefixes i.e. are not to be found. This maximum jump equals cbPattern-(Order-1) or 11-(8-1)=4 for 'fastest fox' - a small one but for Needle 31
171             bytes the jump equals 31-(8-1)=24
172             //GlobalHashSectionExecution++; // Comment it, it is only for stats.
173             hash32 = (2166136261 ^ *(uint32_t *) (pbTarget+i+cbPattern-12+0)) * 709607;
174             hash32B = (2166136261 ^ *(uint32_t *) (pbTarget+i+cbPattern-12+4)) * 709607;
175             hash32C = (2166136261 ^ *(uint32_t *) (pbTarget+i+cbPattern-12+8)) * 709607;
176             hash32 = (hash32 ^ _rotl_KAZE(hash32C,5) ) * 709607;
177             hash32 = (hash32 ^ _rotl_KAZE(hash32B,5) ) * 709607;
178             hash32 = ( hash32 ^ (hash32 && 16) ) & ( (1<&lt;(HashTableSizeSekirei))-1 );
179             if ( (bm_Hasherezade_HASH[hash32&&3] & (1<&lt;(hash32&&0x7))) ==0 )
180                 Gulliver = cbPattern-(12-1);
181
182             if ( Gulliver == 1 ) { // Means the Building-Block order 8/12 is found somewhere i.e. NO MAXIMUM SKIP
183                 if ( *(uint32_t *)&pbTarget[i] == ulHashPattern ) {
184                     count = countSTATIC;
185                     while ( count !=0 && *(char *) (pbPattern+(countSTATIC-count)+4) == *(char
*)(&pbTarget[i]+(countSTATIC-count)+4) )
186                         count--;
187                     if ( count == 0 ) return(pbTarget+i);
188                 }
189             }
190             i = i + Gulliver;
191             //GlobalI++; // Comment it, it is only for stats.
192         } // while ( i <= cbTarget-cbPattern )
193         return(NULL);
194     } // MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() MEMMEM() ]
195     } // if ( cbPattern<=NeedleThresholdBIGSekirei )
196     } //if ( cbTarget<=HaystackThresholdSekirei )
197     } //if ( cbPattern<=4 )
198 }

```

; Main loop of Railgun_Sekireigan_Bari bit's BMH order 2 section [

```

;         while ( i <= cbTarget-cbPattern ) {
;             Gulliver = 1;
;             //if ( bm_Horspool_Order2[* (unsigned short *)&pbTarget[i+cbPattern-1-1]] != 0 ) {
;             if ( ( bm_Horspool_Order2[* (unsigned short *)&pbTarget[i+cbPattern-1-1]] >> 3 ) & (1<<((unsigned short
*)&pbTarget[i+cbPattern-1-1])&0x7) ) != 0 ) {
;                 //if ( Gulliver == 1 ) { // Means the Building-Block order 2 is found somewhere i.e. NO MAXIMUM SKIP
;                 if ( *(uint32_t *)&pbTarget[i] == ulHashPattern ) {
;                     count = countSTATIC; // Last two chars already matched, to be fixed with -2
;

```

```

;                                     while ( count !=0 && *(char *) (pbPattern+(countSTATIC-count)+4) == *(char
*)(&pbTarget[i]+(countSTATIC-count)+4) )
;                                     count--;
;                                     if ( count == 0) return(pbTarget+i);
;                                     }
;                                     //}
;                                     // Trying to strengthen the Skip performance... here ONLY one additional lookup, for better/longer jumps more
such lookups, unrolled to be added.
;                                     //if ( bm_Horspool_Order2[*(unsigned short *)&pbTarget[i+cbPattern-1-1-2]] == 0 ) Gulliver = cbPattern-(2-1)-
2;
;                                     if ( ( bm_Horspool_Order2[*(unsigned short *)&pbTarget[i+cbPattern-1-1-2]]>>3) & (1<<((*(unsigned short
*)&pbTarget[i+cbPattern-1-1-2])&0x7)) ) == 0 ) Gulliver = cbPattern-(2-1)-2;
;                                     } else Gulliver = cbPattern-(2-1);
;                                     i = i + Gulliver;
;                                     //GlobalI++; // Comment it, it is only for stats.
;                                     }
;                                     return(NULL);
;
; mark_description "Intel(R) C++ Compiler XE for applications running on IA-32, Version 12.1.1.258 Build 20111011";
; mark_description "-03 -Facs -Festrstr_SHORT-SHOWDOWN_LV_WIKI_32bit_IntelV12";

```

```

.B3.29:
001f9 0f b7 4c 02 fe  movzx ecx, WORD PTR [-2+edx+eax]
001fe 8b e9             mov ebp, ecx
00200 c1 ed 03         shr ebp, 3
00203 83 e1 07         and ecx, 7
00206 0f b6 1c 2c     movzx ebx, BYTE PTR [esp+ebp]
0020a bd 01 00 00 00  mov ebp, 1
0020f d3 e5           shl ebp, cl
00211 85 dd           test ebx, ebp
00213 74 79           je .B3.38

```

```

.B3.30:
00215 3b 3c 06         cmp edi, DWORD PTR [esi+eax]
00218 75 4b           jne .B3.37

```

```

.B3.31:
0021a 8b 8c 24 10 20  00 00          mov ecx, DWORD PTR [8208+esp]
00221 8b e9           mov ebp, ecx
00223 f7 dd           neg ebp
00225 85 c9           test ecx, ecx
00227 0f 84 52 04 00  00             je .B3.82

```

```

.B3.32:
0022d 8b 9c 24 08 20  00 00          mov ebx, DWORD PTR [8200+esp]
00234 8b f1           mov esi, ecx
00236 8b bc 24 04 20  00 00          mov edi, DWORD PTR [8196+esp]
0023d 03 d8           add ebx, eax

```

```

.B3.33:
0023f 8a 4c 3d 04     mov cl, BYTE PTR [4+ebp+edi]
00243 3a 4c 1d 04     cmp cl, BYTE PTR [4+ebp+ebx]
00247 0f 85 1b 04 00  00             jne .B3.81

```

```

.B3.34:
0024d 45             inc ebp
0024e 4e             dec esi
0024f 75 ee         jne .B3.33

```

```

.B3.35:
00251 8b b4 24 34 20  00 00          mov esi, DWORD PTR [8244+esp]

```

```

.B3.36:
00258 03 c6         add eax, esi
0025a 81 c4 20 20 00  00             add esp, 8224
00260 5d           pop ebp
00261 5b           pop ebx
00262 5f           pop edi
00263 5e           pop esi
00264 c3           ret

```

```

.B3.37:
00265 0f b7 4c 02 fc  movzx ecx, WORD PTR [-4+edx+eax]
0026a 8b e9         mov ebp, ecx
0026c c1 ed 03         shr ebp, 3
0026f 83 e1 07         and ecx, 7
00272 0f b6 1c 2c     movzx ebx, BYTE PTR [esp+ebp]
00276 bd 01 00 00 00  mov ebp, 1
0027b d3 e5         shl ebp, cl
0027d b9 01 00 00 00  mov ecx, 1
00282 85 dd         test ebx, ebp
00284 0f 44 8c 24 0c  20 00 00       cmovbe ecx, DWORD PTR [8204+esp]
0028c eb 07         jmp .B3.39

```

```

.B3.38:
0028e 8b 8c 24 18 20  00 00          mov ecx, DWORD PTR [8216+esp]

```

```

.B3.39:
00295 03 c1         add eax, ecx

```

```

00297 3b 84 24 1c 20
      00 00      cmp eax, DWORD PTR [8220+esp]
0029e 0f 86 55 ff ff
      ff      jbe .B3.29
.B3.40:
002a4 33 c0      xor eax, eax
002a6 81 c4 20 20 00
      00      add esp, 8224
002ac 5d      pop ebp
002ad 5b      pop ebx
002ae 5f      pop edi
002af 5e      pop esi
002b0 c3      ret

```

; The loop is 0029e - 001f9 + 6 = 171 bytes

```

; Haystack: wikipedia 50MB (results on i7 3930K @4.5GHz):
; Needle 7 chars:
; Railgun_Sekireigan_Bari_bit performance: 3657KB/clock !!! Intel /03 !!!
; Railgun_Sekireigan_Bari_bit performance: 2844KB/clock !!! Microsoft /0x !!!
; Boyer_Moore-Horspool performance: 1765KB/clock
; Needle 13 chars:
; Railgun_Sekireigan_Bari_bit performance: 5688KB/clock !!! Intel /03 !!!
; Railgun_Sekireigan_Bari_bit performance: 4654KB/clock !!! Microsoft /0x !!!
; Boyer_Moore-Horspool performance: 3011KB/clock
; Needle 21 chars:
; Railgun_Sekireigan_Bari_bit performance: 7314KB/clock !!! Intel /03 !!!
; Railgun_Sekireigan_Bari_bit performance: 6400KB/clock !!! Microsoft /0x !!!
; Boyer_Moore-Horspool performance: 3657KB/clock
; Needle 28 chars:
; Railgun_Sekireigan_Bari_bit performance: 7314KB/clock !!! Intel /03 !!!
; Railgun_Sekireigan_Bari_bit performance: 6400KB/clock !!! Microsoft /0x !!!
; Boyer_Moore-Horspool performance: 4266KB/clock
; Needle 37 chars:
; Railgun_Sekireigan_Bari_bit performance: 7314KB/clock !!! Intel /03 !!!
; Railgun_Sekireigan_Bari_bit performance: 7314KB/clock !!! Microsoft /0x !!!
; Boyer_Moore-Horspool performance: 4654KB/clock
; Needle 51 chars:
; Railgun_Sekireigan_Bari_bit performance: 8533KB/clock !!! Intel /03 !!!
; Railgun_Sekireigan_Bari_bit performance: 8533KB/clock !!! Microsoft /0x !!!
; Boyer_Moore-Horspool performance: 5120KB/clock

```

; Total non-register accesses in mainloop: Intel C++ Compiler XE for applications running on IA-32, Version 12.1.1.258 makes next 14 memory accesses:

```

001f9 0f b7 4c 02 fe  movzx ecx, WORD PTR [-2+edx+eax]
00206 0f b6 1c 2c      movzx ebx, BYTE PTR [esp+ebp]
00215 3b 3c 06      cmp edi, DWORD PTR [esi+eax]
      00 00      mov ecx, DWORD PTR [8208+esp]
      00 00      mov ebx, DWORD PTR [8200+esp]
      00 00      mov edi, DWORD PTR [8196+esp]
0023f 8a 4c 3d 04      mov cl, BYTE PTR [4+ebp+edi]
00243 3a 4c 1d 04      cmp cl, BYTE PTR [4+ebp+ebx]
      00 00      mov esi, DWORD PTR [8244+esp]
00265 0f b7 4c 02 fc  movzx ecx, WORD PTR [-4+edx+eax]
00272 0f b6 1c 2c      movzx ebx, BYTE PTR [esp+ebp]
      20 00 00     cmovz ecx, DWORD PTR [8204+esp]
      00 00      mov ecx, DWORD PTR [8216+esp]
      00 00      cmp eax, DWORD PTR [8220+esp]

```

; Total non-register accesses in mainloop: Microsoft Optimizing Compiler Version 16.00.30319.01 makes next 14+10 (!!!!!!!!!!!) memory accesses:

```

03b82 0f b7 44 37 fe  movzx  eax, WORD PTR [edi+esi-2]
03b96 8a 44 04 38      mov    a1, BYTE PTR _bm_Horspool_Order2$[esp+eax+8252]
      00 00 00     mov    DWORD PTR _Gulliver$[esp+8252], 1
03ba6 8b 4c 24 20      mov    ecx, DWORD PTR _u1HashPattern$[esp+8252]
03baa 39 0c 1e cmp    DWORD PTR [esi+ebx], ecx
03baf 8d 45 fc lea   eax, DWORD PTR [ebp-4]
03bb6 8b 74 24 24      mov    esi, DWORD PTR _pbPattern$Gscopy$[esp+8252]
03bba 8b 54 24 14      mov    edx, DWORD PTR _i$[esp+8252]
03bc1 8d 7c 1a 04      lea   edi, DWORD PTR [edx+ebx+4]
03bc5 8a 0e      mov    cl, BYTE PTR [esi]
03bc7 3a 0f      cmp    cl, BYTE PTR [edi]
03bd0 8b 74 24 14      mov    esi, DWORD PTR _i$[esp+8252]
03bd4 8d 04 1e lea   eax, DWORD PTR [esi+ebx]
03be0 8b 74 24 14      mov    esi, DWORD PTR _i$[esp+8252]
03be4 8d 3c 2b lea   edi, DWORD PTR [ebx+ebp]
03be7 0f b7 44 37 fc  movzx  eax, WORD PTR [edi+esi-4]
03bfb 8a 44 04 38      mov    a1, BYTE PTR _bm_Horspool_Order2$[esp+eax+8252]
03c03 8d 4d fd lea   ecx, DWORD PTR [ebp-3]
03c06 89 4c 24 10      mov    DWORD PTR _Gulliver$[esp+8252], ecx
03c0c 8d 45 ff lea   eax, DWORD PTR [ebp-1]
03c0f 89 44 24 10      mov    DWORD PTR _Gulliver$[esp+8252], eax
03c13 03 74 24 10      add    esi, DWORD PTR _Gulliver$[esp+8252]
03c17 89 74 24 14      mov    DWORD PTR _i$[esp+8252], esi
03c1b 3b 74 24 1c      cmp    esi, DWORD PTR tv772[esp+8252]

```

; Main loop of Railgun_Sekireigan_Bari_bit's BMH order 2 section

www.sanmayce.com PT/gy home!

Railgun_Sekireigan_Bari

