

***** AlignTest LogFile *****

***** CPU & OS Environment: *****

Operating System : Linux
Architecture : i386
CUID Support : True
CPU Vendor : GenuineIntel
CPU Name : Intel(R) Celeron(R) CPU 900 @ 2.20GHz
CUID : 1067A h
CPU Family : 6
CPU Model : 7
CPU Stepping : 10
Compiled with Optimization Level 2 and Debug-Info OFF

***** Test Statistics: *****

Directory: /usr/share/lazarus/
Filename Mask: *.pas;*.pp;*.inc;*.lpr;*.dpr
Files loaded: 3,372
Strings loaded: 927,817
Number of search chars: 20 (A;a;B;b;C;c;D;d;E;e;_;\;7;\$;%;^;|; ;Q;T)
Number of calls per function: 18,556,340
Number of matches per function: 5,457,330 = 29.41 %
Number of mismatches per function: 13,098,990 = 70.59 %
Number of Char comparisons per function: 698,005,841
Cumulated result per function: 92,003,111 (used for verification)
Average char comparisons per call: 37.62
Average result per matched call: 16.86

***** Test Results: *****

***** Statistics grabbing functions *****

Function CharPos_Statistics	Reference	2.824 s	=	152 ns / Call	
Function CharPos_AsmDummy_NoLoop	Empty	217.8 ms	=	12 ns / Call	Konstanter Anteil (Aufruf)

***** Pascal functions *****

Function CharPos_SysPosByCall	Verified	1.366 s	(100.0 %)	=	74 ns / Call	Referenz
Function CharPos_SysPosClone_NoAlign	Verified	1.377 s	(100.8 %)	=	74 ns / Call	
Function CharPos_SysPosClone_ProcAlign	Verified	1.555 s	(113.9 %)	=	84 ns / Call	
Function CharPos_SysPosClone_ProcLoopAlign	Verified	1.559 s	(114.1 %)	=	84 ns / Call	
Function CharPos_OwnPascal_NoAlign	Verified	1.313 s	(96.1 %)	=	71 ns / Call	
Function CharPos_OwnPascal_ProcAlign	Verified	1.246 s	(91.2 %)	=	67 ns / Call	
Function CharPos_OwnPascal_ProcLoopAlign	Verified	1.263 s	(92.5 %)	=	68 ns / Call	

***** Asm functions Version 1: *****

Char comparison first, unconditional loop jump, countdown with 4 byte subw:

```
*****
*          .balign 16          *
*          >> n bytes NOP <<  *
*  .LLoop: cmpb    (%esi), %dl    // 2 Byte Code 3a16    *
*          je      .LResult      // 2 Byte Code 74xx     *
*          subw    $1, %ax        // 4 Byte Code 662d0100 *
*          jz      .LExit        // 2 Byte Code 74xx     *
*          inc     %esi          // 1 Byte Code 46        *
*          jmp     .LLoop        // 2 Byte Code ebxx     *
*****
```

Function CharPos_Asm1_LoopStart_0	Verified	1.992 s	(145.9 %)	=	107 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm1_LoopStart_1	Verified	1.987 s	(145.5 %)	=	107 ns / Call	=	95 ns Loop time / Call
Function CharPos_Asm1_LoopStart_2	Verified	2.030 s	(148.6 %)	=	109 ns / Call	=	98 ns Loop time / Call
Function CharPos_Asm1_LoopStart_3	Verified	1.987 s	(145.5 %)	=	107 ns / Call	=	95 ns Loop time / Call
Function CharPos_Asm1_LoopStart_4	Verified	2.122 s	(155.4 %)	=	114 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm1_LoopStart_5	Verified	2.134 s	(156.3 %)	=	115 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm1_LoopStart_6	Verified	2.123 s	(155.4 %)	=	114 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm1_LoopStart_7	Verified	2.133 s	(156.2 %)	=	115 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm1_LoopStart_8	Verified	2.124 s	(155.5 %)	=	114 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm1_LoopStart_9	Verified	2.130 s	(155.9 %)	=	115 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm1_LoopStart_A	Verified	2.125 s	(155.6 %)	=	115 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm1_LoopStart_B	Verified	2.092 s	(153.2 %)	=	113 ns / Call	=	101 ns Loop time / Call
Function CharPos_Asm1_LoopStart_C	Verified	2.095 s	(153.4 %)	=	113 ns / Call	=	101 ns Loop time / Call
Function CharPos_Asm1_LoopStart_D	Verified	2.115 s	(154.8 %)	=	114 ns / Call	=	102 ns Loop time / Call
Function CharPos_Asm1_LoopStart_E	Verified	2.113 s	(154.7 %)	=	114 ns / Call	=	102 ns Loop time / Call
Function CharPos_Asm1_LoopStart_F	Verified	2.144 s	(157.0 %)	=	116 ns / Call	=	104 ns Loop time / Call

Function CharPos_Asm1_LoopStart_32	Verified	1.993 s	(146.0 %)	=	107 ns / Call	=	96 ns Loop time / Call
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Function CharPos_Asm1_LoopStart_64	Verified	2.129 s	(155.9 %)	=	115 ns / Call	=	103 ns Loop time / Call
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***** Asm functions Version 2: *****

Char comparison last, unconditional loop jump, countdown with 4 byte subw:

```
*****
*          .balign 16                               *
*          >> n bytes NOP <<                         *
*  .LLoop:  subw    $1, %ax          // 4 Byte Code 662d0100 *
*          jz      .LExit           // 2 Byte Code 74xx      *
*          inc     %esi             // 1 Byte Code 46         *
*          cmpb    (%esi), %dl      // 2 Byte Code 3a16       *
*          je      .LResult         // 2 Byte Code 74xx      *
*          jmp     .LLoop           // 2 Byte Code ebxx      *
*****
```

Function CharPos_Asm2_LoopStart_0	Verified	1.993 s	(145.9 %)	=	107 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm2_LoopStart_1	Verified	1.998 s	(146.3 %)	=	108 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm2_LoopStart_2	Verified	1.993 s	(145.9 %)	=	107 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm2_LoopStart_3	Verified	1.999 s	(146.3 %)	=	108 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm2_LoopStart_4	Verified	2.121 s	(155.3 %)	=	114 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm2_LoopStart_5	Verified	2.128 s	(155.8 %)	=	115 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm2_LoopStart_6	Verified	2.123 s	(155.4 %)	=	114 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm2_LoopStart_7	Verified	2.123 s	(155.4 %)	=	114 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm2_LoopStart_8	Verified	2.126 s	(155.6 %)	=	115 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm2_LoopStart_9	Verified	2.123 s	(155.4 %)	=	114 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm2_LoopStart_A	Verified	2.123 s	(155.4 %)	=	114 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm2_LoopStart_B	Verified	2.168 s	(158.7 %)	=	117 ns / Call	=	105 ns Loop time / Call
Function CharPos_Asm2_LoopStart_C	Verified	2.126 s	(155.7 %)	=	115 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm2_LoopStart_D	Verified	2.133 s	(156.2 %)	=	115 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm2_LoopStart_E	Verified	2.127 s	(155.8 %)	=	115 ns / Call	=	103 ns Loop time / Call
Function CharPos_Asm2_LoopStart_F	Verified	2.116 s	(154.9 %)	=	114 ns / Call	=	102 ns Loop time / Call

Function CharPos_Asm2_LoopStart_32	Verified	1.993 s	(145.9 %)	=	107 ns / Call	=	96 ns Loop time / Call
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Function CharPos_Asm2_LoopStart_64	Verified	2.138 s	(156.5 %)	=	115 ns / Call	=	103 ns Loop time / Call
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***** Asm functions Version 3a: *****

Char comparison last, conditional loop jump, countdown with 4 byte subw:

```
*****
*          .balign 16          *
*          >> n bytes NOP <<  *
*  .LLoop:  subw    $1, %ax      // 4 Byte Code 662d0100  *
*          jz      .LExit       // 2 Byte Code 74xx      *
*          inc     %esi         // 1 Byte Code 46         *
*          cmpb    (%esi), %dl   // 2 Byte Code 3a16      *
*          jne     .LLoop       // 2 Byte Code 75xx      *
*          jmp     .LResult     // 2 Byte Code ebxx      *
*****
```

Function CharPos_Asm3a_LoopStart_0	Verified	1.999 s	(146.4 %)	=	108 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_1	Verified	1.998 s	(146.3 %)	=	108 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_2	Verified	2.002 s	(146.6 %)	=	108 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_3	Verified	1.994 s	(146.0 %)	=	107 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_4	Verified	2.003 s	(146.6 %)	=	108 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_5	Verified	2.005 s	(146.8 %)	=	108 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_6	Verified	2.146 s	(157.1 %)	=	116 ns / Call	=	104 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_7	Verified	2.153 s	(157.6 %)	=	116 ns / Call	=	104 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_8	Verified	2.154 s	(157.7 %)	=	116 ns / Call	=	104 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_9	Verified	2.104 s	(154.1 %)	=	113 ns / Call	=	102 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_A	Verified	2.159 s	(158.1 %)	=	116 ns / Call	=	105 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_B	Verified	2.164 s	(158.4 %)	=	117 ns / Call	=	105 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_C	Verified	2.163 s	(158.4 %)	=	117 ns / Call	=	105 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_D	Verified	2.153 s	(157.6 %)	=	116 ns / Call	=	104 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_E	Verified	2.156 s	(157.8 %)	=	116 ns / Call	=	104 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_F	Verified	2.138 s	(156.6 %)	=	115 ns / Call	=	103 ns Loop time / Call

Function CharPos_Asm3a_LoopStart_32	Verified	2.002 s	(146.6 %)	=	108 ns / Call	=	96 ns Loop time / Call
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Function CharPos_Asm3a_LoopStart_64	Verified	2.003 s	(146.7 %)	=	108 ns / Call	=	96 ns Loop time / Call
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***** Asm functions Version 3b: *****

Same as Version 3a, countdown with 2 byte decw:

```
*****
*          .balign 16                               *
*          >> n bytes NOP <<                       *
*  .LLoop:  decw    %ax                               // 2 Byte Code 6648  *
*          jz      .LExit                             // 2 Byte Code 74xx  *
*          inc     %esi                               // 1 Byte Code 46     *
*          cmpb    (%esi), %dl                        // 2 Byte Code 3a16  *
*          jne     .LLoop                             // 2 Byte Code 75xx  *
*          jmp     .LResult                           // 2 Byte Code ebxx  *
*****
```

Function CharPos_Asm3b_LoopStart_0	Verified	1.126 s	(82.4 %)	=	61 ns / Call	=	49 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_1	Verified	1.129 s	(82.6 %)	=	61 ns / Call	=	49 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_2	Verified	1.132 s	(82.9 %)	=	61 ns / Call	=	49 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_3	Verified	1.129 s	(82.7 %)	=	61 ns / Call	=	49 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_4	Verified	1.128 s	(82.6 %)	=	61 ns / Call	=	49 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_5	Verified	1.124 s	(82.3 %)	=	61 ns / Call	=	49 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_6	Verified	1.130 s	(82.8 %)	=	61 ns / Call	=	49 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_7	Verified	1.125 s	(82.4 %)	=	61 ns / Call	=	49 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_8	Verified	1.135 s	(83.1 %)	=	61 ns / Call	=	49 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_9	Verified	1.219 s	(89.2 %)	=	66 ns / Call	=	54 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_A	Verified	1.139 s	(83.4 %)	=	61 ns / Call	=	50 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_B	Verified	1.221 s	(89.4 %)	=	66 ns / Call	=	54 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_C	Verified	1.134 s	(83.1 %)	=	61 ns / Call	=	49 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_D	Verified	1.222 s	(89.5 %)	=	66 ns / Call	=	54 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_E	Verified	1.135 s	(83.1 %)	=	61 ns / Call	=	49 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_F	Verified	1.228 s	(89.9 %)	=	66 ns / Call	=	54 ns Loop time / Call

Function CharPos_Asm3b_LoopStart_32	Verified	1.126 s	(82.4 %)	=	61 ns / Call	=	49 ns Loop time / Call
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Function CharPos_Asm3b_LoopStart_64	Verified	1.136 s	(83.2 %)	=	61 ns / Call	=	50 ns Loop time / Call
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***** Asm functions Version 3c: *****

Same as Version 3a, loop start aligned to 16, internal (runthrough) NOPs:

```
*****
*                               *
*      .balign 16               *
*  .LLoop:  subw    $1, %ax      // 4 Byte Code 662d0100  *
*           jz      .LExit      // 2 Byte Code 74xx       *
*           >> n bytes NOP <<  *
*           inc     %esi        // 1 Byte Code 46         *
*           cmpb    (%esi), %dl  // 2 Byte Code 3a16       *
*           jne     .LLoop      // 2 Byte Code 75xx       *
*           jmp     .LResult    // 2 Byte Code ebxx       *
*****
```

Function CharPos_Asm3c_InsideLoop_0	Verified	2.011 s	(147.2 %)	=	108 ns / Call	=	97 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_1	Verified	2.007 s	(147.0 %)	=	108 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_2	Verified	2.006 s	(146.9 %)	=	108 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_3	Verified	2.006 s	(146.9 %)	=	108 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_4	Verified	2.008 s	(147.0 %)	=	108 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_5	Verified	1.999 s	(146.4 %)	=	108 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_6	Verified	2.157 s	(157.9 %)	=	116 ns / Call	=	105 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_7	Verified	2.150 s	(157.4 %)	=	116 ns / Call	=	104 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_8	Verified	2.098 s	(153.6 %)	=	113 ns / Call	=	101 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_9	Verified	2.235 s	(163.7 %)	=	120 ns / Call	=	109 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_A	Verified	2.162 s	(158.3 %)	=	116 ns / Call	=	105 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_B	Verified	2.151 s	(157.5 %)	=	116 ns / Call	=	104 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_C	Verified	2.323 s	(170.1 %)	=	125 ns / Call	=	113 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_D	Verified	2.316 s	(169.6 %)	=	125 ns / Call	=	113 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_E	Verified	2.332 s	(170.7 %)	=	126 ns / Call	=	114 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_F	Verified	2.316 s	(169.6 %)	=	125 ns / Call	=	113 ns Loop time / Call

Function CharPos_Asm3c_InsideLoop_32	Verified	2.368 s	(173.4 %)	=	128 ns / Call	=	116 ns Loop time / Call
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Function CharPos_Asm3c_InsideLoop_64	Verified	1.999 s	(146.4 %)	=	108 ns / Call	=	96 ns Loop time / Call
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***** Asm functions Version 4a: *****

Dummy without doing anything but jumping to NOPed Exit (RET):

```
*****
*   asm                               *
*           jmp      .LExit           *
*           .balign 16                *
*           >> n bytes NOP <<       *
*   .LExit:                          *
*   end;                             *
*****
```

Function CharPos_Asm4a_NoLoop_ExitStart_0	Empty	133.2 ms (9.8 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_1	Empty	133.1 ms (9.7 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_2	Empty	132.1 ms (9.7 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_3	Empty	134.1 ms (9.8 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_4	Empty	134.1 ms (9.8 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_5	Empty	133.8 ms (9.8 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_6	Empty	135.4 ms (9.9 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_7	Empty	133.0 ms (9.7 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_8	Empty	134.1 ms (9.8 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_9	Empty	133.1 ms (9.7 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_A	Empty	133.1 ms (9.7 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_B	Empty	133.1 ms (9.7 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_C	Empty	134.1 ms (9.8 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_D	Empty	134.0 ms (9.8 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_E	Empty	134.1 ms (9.8 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_F	Empty	134.1 ms (9.8 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_32	Empty	133.1 ms (9.7 %)	=	7 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_64	Empty	134.1 ms (9.8 %)	=	7 ns / Call

***** Asm functions Version 4b: *****

Same as Version 4a, but with PUSH / NOPed Exit (POP RET):

```
*****
*   asm                               *
*           pushl   %esi               *
*           jmp     .LExit              *
*           .balign 16                 *
*           >> n bytes NOP <<         *
*   .LExit: popl    %esi               *
*   end;                               *
*****
```

Function CharPos_Asm4b_NoLoop_ExitStart_0	Empty	140.0 ms (10.2 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_1	Empty	141.0 ms (10.3 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_2	Empty	145.6 ms (10.7 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_3	Empty	139.0 ms (10.2 %)	=	7 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_4	Empty	140.0 ms (10.3 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_5	Empty	140.2 ms (10.3 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_6	Empty	139.9 ms (10.2 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_7	Empty	140.1 ms (10.3 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_8	Empty	139.9 ms (10.2 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_9	Empty	140.2 ms (10.3 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_A	Empty	140.9 ms (10.3 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_B	Empty	140.0 ms (10.2 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_C	Empty	139.1 ms (10.2 %)	=	7 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_D	Empty	139.9 ms (10.2 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_E	Empty	139.9 ms (10.2 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_F	Empty	141.0 ms (10.3 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_32	Empty	140.2 ms (10.3 %)	=	8 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_64	Empty	139.2 ms (10.2 %)	=	8 ns / Call