

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

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

Operating System : Linux
Architecture : x86_64
CUID Support : True
CPU Vendor : AuthenticAMD
CPU Name : AMD Athlon(tm) 64 X2 Dual Core Processor 5000+
CUID : 60FB2 h
CPU Family : 15
CPU Model : 107
CPU Stepping : 2
Compiled with Optimization Level 2 and Debug-Info OFF

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

Directory: /usr/share/lazarus/1.2.4
Filename Mask: *.pas;*.pp;*.inc;*.lpr;*.dpr
Files loaded: 3,903
Strings loaded: 1,107,802
Number of search chars: 20 (A;a;B;b;C;c;D;d;E;e;_;\;7;\$;%;^;|; ;Q;T)
Number of calls per function: 22,156,040
Number of matches per function: 6,535,345 = 29.50 %
Number of mismatches per function: 15,620,675 = 70.50 %
Number of Char comparisons per function: 839,164,854
Cumulated result per function: 111,594,790 (used for verification)
Average char comparisons per call: 37.88
Average result per matched call: 17.08

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

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

Function CharPos_Statistics	Reference	2.609 s	=	118 ns / Call	
Function CharPos_AsmDummy_NoLoop	Empty	221.3 ms	=	10 ns / Call	Konstanter Anteil (Aufruf)

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

Function CharPos_SysPosByCall	Verified	2.457 s	(100.0 %)	=	111 ns / Call	Referenz
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Function CharPos_SysPosClone_NoAlign	Verified	1.651 s	(67.2 %)	=	75 ns / Call
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Function CharPos_SysPosClone_ProcAlign	Verified	1.650 s	(67.1 %)	=	74 ns / Call
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Function CharPos_SysPosClone_ProcLoopAlign	Verified	1.650 s	(67.2 %)	=	74 ns / Call
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Function CharPos_OwnPascal_NoAlign	Verified	2.055 s	(83.6 %)	=	93 ns / Call
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Function CharPos_OwnPascal_ProcAlign	Verified	1.431 s	(58.2 %)	=	65 ns / Call
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Function CharPos_OwnPascal_ProcLoopAlign	Verified	1.428 s	(58.1 %)	=	64 ns / Call
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***** Asm functions Version 1: *****

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

```
*****
*          .balign 16          *
*          >> n bytes NOP <<  *
*  .LLoop: cmpb    (%rsi), %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     %rsi          // 3 Byte Code 48ffc6    *
*          jmp     .LLoop        // 2 Byte Code ebxx    *
*****
```

Function CharPos_Asm1_LoopStart_0	Verified	2.335 s	(95.0 %)	=	105 ns / Call	=	95 ns Loop time / Call
Function CharPos_Asm1_LoopStart_1	Verified	2.331 s	(94.9 %)	=	105 ns / Call	=	95 ns Loop time / Call
Function CharPos_Asm1_LoopStart_2	Verified	1.999 s	(81.3 %)	=	90 ns / Call	=	80 ns Loop time / Call
Function CharPos_Asm1_LoopStart_3	Verified	2.026 s	(82.5 %)	=	91 ns / Call	=	81 ns Loop time / Call
Function CharPos_Asm1_LoopStart_4	Verified	1.999 s	(81.3 %)	=	90 ns / Call	=	80 ns Loop time / Call
Function CharPos_Asm1_LoopStart_5	Verified	1.999 s	(81.4 %)	=	90 ns / Call	=	80 ns Loop time / Call
Function CharPos_Asm1_LoopStart_6	Verified	1.997 s	(81.3 %)	=	90 ns / Call	=	80 ns Loop time / Call
Function CharPos_Asm1_LoopStart_7	Verified	2.022 s	(82.3 %)	=	91 ns / Call	=	81 ns Loop time / Call
Function CharPos_Asm1_LoopStart_8	Verified	1.982 s	(80.7 %)	=	89 ns / Call	=	79 ns Loop time / Call
Function CharPos_Asm1_LoopStart_9	Verified	1.993 s	(81.1 %)	=	90 ns / Call	=	80 ns Loop time / Call
Function CharPos_Asm1_LoopStart_A	Verified	1.995 s	(81.2 %)	=	90 ns / Call	=	80 ns Loop time / Call
Function CharPos_Asm1_LoopStart_B	Verified	1.994 s	(81.1 %)	=	90 ns / Call	=	80 ns Loop time / Call
Function CharPos_Asm1_LoopStart_C	Verified	1.989 s	(80.9 %)	=	90 ns / Call	=	80 ns Loop time / Call
Function CharPos_Asm1_LoopStart_D	Verified	2.690 s	(109.5 %)	=	121 ns / Call	=	111 ns Loop time / Call
Function CharPos_Asm1_LoopStart_E	Verified	2.727 s	(111.0 %)	=	123 ns / Call	=	113 ns Loop time / Call
Function CharPos_Asm1_LoopStart_F	Verified	2.682 s	(109.2 %)	=	121 ns / Call	=	111 ns Loop time / Call

Function CharPos_Asm1_LoopStart_32	Verified	2.335 s	(95.0 %)	=	105 ns / Call	=	95 ns Loop time / Call
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Function CharPos_Asm1_LoopStart_64	Verified	1.979 s	(80.6 %)	=	89 ns / Call	=	79 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     %rsi         // 3 Byte Code 48ffc6     *
*          cmpb    (%rsi), %dl   // 2 Byte Code 3a16      *
*          je      .LResult     // 2 Byte Code 74xx      *
*          jmp     .LLoop       // 2 Byte Code ebxx      *
*****
```

Function CharPos_Asm2_LoopStart_0	Verified	2.363 s	(96.2 %)	=	107 ns / Call	=	97 ns Loop time / Call
Function CharPos_Asm2_LoopStart_1	Verified	2.350 s	(95.6 %)	=	106 ns / Call	=	96 ns Loop time / Call
Function CharPos_Asm2_LoopStart_2	Verified	2.066 s	(84.1 %)	=	93 ns / Call	=	83 ns Loop time / Call
Function CharPos_Asm2_LoopStart_3	Verified	2.025 s	(82.4 %)	=	91 ns / Call	=	81 ns Loop time / Call
Function CharPos_Asm2_LoopStart_4	Verified	2.064 s	(84.0 %)	=	93 ns / Call	=	83 ns Loop time / Call
Function CharPos_Asm2_LoopStart_5	Verified	2.026 s	(82.5 %)	=	91 ns / Call	=	81 ns Loop time / Call
Function CharPos_Asm2_LoopStart_6	Verified	2.025 s	(82.4 %)	=	91 ns / Call	=	81 ns Loop time / Call
Function CharPos_Asm2_LoopStart_7	Verified	2.016 s	(82.1 %)	=	91 ns / Call	=	81 ns Loop time / Call
Function CharPos_Asm2_LoopStart_8	Verified	2.025 s	(82.4 %)	=	91 ns / Call	=	81 ns Loop time / Call
Function CharPos_Asm2_LoopStart_9	Verified	2.024 s	(82.4 %)	=	91 ns / Call	=	81 ns Loop time / Call
Function CharPos_Asm2_LoopStart_A	Verified	2.020 s	(82.2 %)	=	91 ns / Call	=	81 ns Loop time / Call
Function CharPos_Asm2_LoopStart_B	Verified	2.707 s	(110.2 %)	=	122 ns / Call	=	112 ns Loop time / Call
Function CharPos_Asm2_LoopStart_C	Verified	2.708 s	(110.2 %)	=	122 ns / Call	=	112 ns Loop time / Call
Function CharPos_Asm2_LoopStart_D	Verified	2.715 s	(110.5 %)	=	123 ns / Call	=	113 ns Loop time / Call
Function CharPos_Asm2_LoopStart_E	Verified	2.712 s	(110.4 %)	=	122 ns / Call	=	112 ns Loop time / Call
Function CharPos_Asm2_LoopStart_F	Verified	2.716 s	(110.5 %)	=	123 ns / Call	=	113 ns Loop time / Call

Function CharPos_Asm2_LoopStart_32	Verified	2.357 s	(95.9 %)	=	106 ns / Call	=	96 ns Loop time / Call
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Function CharPos_Asm2_LoopStart_64	Verified	2.022 s	(82.3 %)	=	91 ns / Call	=	81 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     %rsi         // 3 Byte Code 48ffc6     *
*          cmpb    (%rsi), %dl   // 2 Byte Code 3a16      *
*          jne     .LLoop       // 2 Byte Code 75xx      *
*          jmp     .LResult     // 2 Byte Code ebxx      *
*****
```

Function CharPos_Asm3a_LoopStart_0	Verified	1.693 s	(68.9 %)	=	76 ns / Call	=	66 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_1	Verified	1.675 s	(68.2 %)	=	76 ns / Call	=	66 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_2	Verified	1.678 s	(68.3 %)	=	76 ns / Call	=	66 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_3	Verified	1.675 s	(68.2 %)	=	76 ns / Call	=	66 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_4	Verified	1.409 s	(57.4 %)	=	64 ns / Call	=	54 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_5	Verified	1.402 s	(57.0 %)	=	63 ns / Call	=	53 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_6	Verified	1.364 s	(55.5 %)	=	62 ns / Call	=	52 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_7	Verified	1.337 s	(54.4 %)	=	60 ns / Call	=	50 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_8	Verified	1.349 s	(54.9 %)	=	61 ns / Call	=	51 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_9	Verified	1.349 s	(54.9 %)	=	61 ns / Call	=	51 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_A	Verified	1.337 s	(54.4 %)	=	60 ns / Call	=	50 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_B	Verified	2.067 s	(84.1 %)	=	93 ns / Call	=	83 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_C	Verified	2.030 s	(82.6 %)	=	92 ns / Call	=	82 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_D	Verified	2.040 s	(83.0 %)	=	92 ns / Call	=	82 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_E	Verified	2.040 s	(83.0 %)	=	92 ns / Call	=	82 ns Loop time / Call
Function CharPos_Asm3a_LoopStart_F	Verified	2.023 s	(82.3 %)	=	91 ns / Call	=	81 ns Loop time / Call

Function CharPos_Asm3a_LoopStart_32	Verified	1.680 s	(68.4 %)	=	76 ns / Call	=	66 ns Loop time / Call
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Function CharPos_Asm3a_LoopStart_64	Verified	1.348 s	(54.9 %)	=	61 ns / Call	=	51 ns Loop time / Call
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***** Asm functions Version 3b: *****

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

```
*****
*          .balign 16                      *
*          >> n bytes NOP <<              *
*  .LLoop: decw    %ax                      // 3 Byte Code 66ffc8  *
*          jz      .LExit                   // 2 Byte Code 74xx   *
*          inc     %rsi                     // 3 Byte Code 48ffc6  *
*          cmpb    (%rsi), %dl              // 2 Byte Code 3a16   *
*          jne     .LLoop                   // 2 Byte Code 75xx   *
*          jmp     .LResult                 // 2 Byte Code ebxx   *
*****
```

Function CharPos_Asm3b_LoopStart_0	Verified	1.675 s	(68.2 %)	=	76 ns / Call	=	66 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_1	Verified	1.675 s	(68.2 %)	=	76 ns / Call	=	66 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_2	Verified	1.674 s	(68.1 %)	=	76 ns / Call	=	66 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_3	Verified	1.678 s	(68.3 %)	=	76 ns / Call	=	66 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_4	Verified	1.674 s	(68.1 %)	=	76 ns / Call	=	66 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_5	Verified	1.407 s	(57.3 %)	=	64 ns / Call	=	54 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_6	Verified	1.364 s	(55.5 %)	=	62 ns / Call	=	52 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_7	Verified	1.364 s	(55.5 %)	=	62 ns / Call	=	52 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_8	Verified	1.337 s	(54.4 %)	=	60 ns / Call	=	50 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_9	Verified	1.349 s	(54.9 %)	=	61 ns / Call	=	51 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_A	Verified	1.349 s	(54.9 %)	=	61 ns / Call	=	51 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_B	Verified	1.337 s	(54.4 %)	=	60 ns / Call	=	50 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_C	Verified	2.031 s	(82.6 %)	=	92 ns / Call	=	82 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_D	Verified	2.031 s	(82.7 %)	=	92 ns / Call	=	82 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_E	Verified	2.058 s	(83.8 %)	=	93 ns / Call	=	83 ns Loop time / Call
Function CharPos_Asm3b_LoopStart_F	Verified	2.076 s	(84.5 %)	=	94 ns / Call	=	84 ns Loop time / Call

Function CharPos_Asm3b_LoopStart_32	Verified	1.674 s	(68.1 %)	=	76 ns / Call	=	66 ns Loop time / Call
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Function CharPos_Asm3b_LoopStart_64	Verified	1.336 s	(54.4 %)	=	60 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     %rsi        // 3 Byte Code 48ffc6     *
*           cmpb    (%rsi), %dl  // 2 Byte Code 3a16       *
*           jne     .LLoop      // 2 Byte Code 75xx       *
*           jmp     .LResult    // 2 Byte Code ebxx       *
*****
```

Function CharPos_Asm3c_InsideLoop_0	Verified	1.673 s	(68.1 %)	=	76 ns / Call	=	66 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_1	Verified	1.681 s	(68.4 %)	=	76 ns / Call	=	66 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_2	Verified	1.685 s	(68.6 %)	=	76 ns / Call	=	66 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_3	Verified	1.682 s	(68.5 %)	=	76 ns / Call	=	66 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_4	Verified	1.388 s	(56.5 %)	=	63 ns / Call	=	53 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_5	Verified	1.358 s	(55.3 %)	=	61 ns / Call	=	51 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_6	Verified	1.357 s	(55.2 %)	=	61 ns / Call	=	51 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_7	Verified	1.358 s	(55.3 %)	=	61 ns / Call	=	51 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_8	Verified	1.358 s	(55.3 %)	=	61 ns / Call	=	51 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_9	Verified	1.358 s	(55.3 %)	=	61 ns / Call	=	51 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_A	Verified	1.339 s	(54.5 %)	=	60 ns / Call	=	50 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_B	Verified	1.345 s	(54.7 %)	=	61 ns / Call	=	51 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_C	Verified	1.343 s	(54.6 %)	=	61 ns / Call	=	51 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_D	Verified	1.344 s	(54.7 %)	=	61 ns / Call	=	51 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_E	Verified	1.344 s	(54.7 %)	=	61 ns / Call	=	51 ns Loop time / Call
Function CharPos_Asm3c_InsideLoop_F	Verified	1.343 s	(54.6 %)	=	61 ns / Call	=	51 ns Loop time / Call

Function CharPos_Asm3c_InsideLoop_32	Verified	1.727 s	(70.3 %)	=	78 ns / Call	=	68 ns Loop time / Call
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Function CharPos_Asm3c_InsideLoop_64	Verified	1.674 s	(68.1 %)	=	76 ns / Call	=	66 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	112.9 ms (4.6 %)	=	5 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_1	Empty	112.9 ms (4.6 %)	=	5 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_2	Empty	301.3 ms (12.3 %)	=	14 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_3	Empty	112.9 ms (4.6 %)	=	5 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_4	Empty	301.5 ms (12.3 %)	=	14 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_5	Empty	113.3 ms (4.6 %)	=	5 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_6	Empty	301.4 ms (12.3 %)	=	14 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_7	Empty	112.9 ms (4.6 %)	=	5 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_8	Empty	301.4 ms (12.3 %)	=	14 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_9	Empty	112.9 ms (4.6 %)	=	5 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_A	Empty	301.4 ms (12.3 %)	=	14 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_B	Empty	112.9 ms (4.6 %)	=	5 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_C	Empty	301.5 ms (12.3 %)	=	14 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_D	Empty	112.9 ms (4.6 %)	=	5 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_E	Empty	327.3 ms (13.3 %)	=	15 ns / Call
Function CharPos_Asm4a_NoLoop_ExitStart_F	Empty	112.9 ms (4.6 %)	=	5 ns / Call

Function CharPos_Asm4a_NoLoop_ExitStart_32	Empty	112.9 ms (4.6 %)	=	5 ns / Call
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Function CharPos_Asm4a_NoLoop_ExitStart_64	Empty	360.8 ms (14.7 %)	=	16 ns / Call
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***** Asm functions Version 4b: *****

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

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

Function CharPos_Asm4b_NoLoop_ExitStart_0	Empty	123.3 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_1	Empty	123.3 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_2	Empty	123.3 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_3	Empty	123.3 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_4	Empty	123.3 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_5	Empty	150.8 ms (6.1 %) =	7 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_6	Empty	123.3 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_7	Empty	123.3 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_8	Empty	123.4 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_9	Empty	123.4 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_A	Empty	123.6 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_B	Empty	123.3 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_C	Empty	123.3 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_D	Empty	123.5 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_E	Empty	123.3 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_F	Empty	122.2 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_32	Empty	123.3 ms (5.0 %) =	6 ns / Call
Function CharPos_Asm4b_NoLoop_ExitStart_64	Empty	123.4 ms (5.0 %) =	6 ns / Call