# {method} {0x000000010a22d860} 'factor' '([[D[I)I' in 'jnt/scimark2/LU'

# parm0: rsi:rsi = '[[D'

# parm1: rdx:rdx = '[I'

# [sp+0x60] (sp of caller)

[Entry Point]

0x000000010aee45a0: mov %eax,-0x14000(%rsp) ; {no\_reloc}

0x000000010aee45a7: push %rbp

0x000000010aee45a8: sub $0x50,%rsp ;\*synchronization entry

; - jnt.scimark2.LU::factor@-1 (line 169)

0x000000010aee45ac: mov 0xc(%rsi),%r9d ;\*arraylength

; - jnt.scimark2.LU::factor@1 (line 169)

; implicit exception: dispatches to 0x000000010aee4e89

0x000000010aee45b0: test %r9d,%r9d

0x000000010aee45b3: jbe L0038

0x000000010aee45b9: mov 0x10(%rsi),%r11d ;\*aaload

; - jnt.scimark2.LU::factor@5 (line 170)

0x000000010aee45bd: mov 0xc(%r12,%r11,8),%r10d ;\*arraylength

; - jnt.scimark2.LU::factor@6 (line 170)

; implicit exception: dispatches to 0x000000010aee4e9d

0x000000010aee45c2: cmp %r9d,%r10d

0x000000010aee45c5: mov %r9d,%r11d

0x000000010aee45c8: cmovl %r10d,%r11d ;\*invokestatic min

; - jnt.scimark2.LU::factor@10 (line 172)

0x000000010aee45cc: test %r11d,%r11d

0x000000010aee45cf: jle L0021 ;\*if\_icmplt

; - jnt.scimark2.LU::factor@266 (line 174)

0x000000010aee45d5: mov %r11d,%r8d

0x000000010aee45d8: dec %r8d ;\*isub

; - jnt.scimark2.LU::factor@184 (line 220)

0x000000010aee45db: cmp %r9d,%r8d

0x000000010aee45de: jae L0037 ;\*iload

; - jnt.scimark2.LU::factor@21 (line 178)

0x000000010aee45e4: mov 0xc(%rdx),%ecx ;\*iastore

; - jnt.scimark2.LU::factor@88 (line 191)

; implicit exception: dispatches to 0x000000010aee4dc9

0x000000010aee45e7: test %ecx,%ecx

0x000000010aee45e9: jbe L0037

0x000000010aee45ef: cmp %ecx,%r8d

0x000000010aee45f2: jae L0037 ;\*iload

; - jnt.scimark2.LU::factor@21 (line 178)

0x000000010aee45f8: mov %r10d,%edi

0x000000010aee45fb: dec %edi ;\*isub

; - jnt.scimark2.LU::factor@134 (line 208)

0x000000010aee45fd: mov %r9d,%eax

0x000000010aee4600: dec %eax

0x000000010aee4602: mov %r9d,%ebx

0x000000010aee4605: add $0xfffffffffffffffd,%ebx

0x000000010aee4608: mov $0x80000000,%ecx

0x000000010aee460d: cmp %ebx,%eax

0x000000010aee460f: cmovl %ecx,%ebx

0x000000010aee4612: vmovsd -0x92(%rip),%xmm3 # 0x000000010aee4588

; {section\_word}

0x000000010aee461a: xor %ecx,%ecx

0x000000010aee461c: vmovq %rdx,%xmm1

0x000000010aee4621: mov %r11d,0x38(%rsp)

0x000000010aee4626: jmp L0001 ;\*iinc

; - jnt.scimark2.LU::factor@259 (line 174)

L0000: cmp 0x38(%rsp),%r13d

0x000000010aee462d: jge L0021 ;\*if\_icmplt

; - jnt.scimark2.LU::factor@266 (line 174)

0x000000010aee4633: mov %r13d,%ecx

0x000000010aee4636: vmovq %xmm2,%rsi

0x000000010aee463b: mov 0x14(%rsp),%r10d

0x000000010aee4640: mov (%rsp),%r8d

0x000000010aee4644: vmovd %xmm4,%eax ;\*iload

; - jnt.scimark2.LU::factor@21 (line 178)

L0001: lea 0x10(%rsi,%rcx,4),%rdx ;\*aaload

; - jnt.scimark2.LU::factor@206 (line 232)

0x000000010aee464d: mov (%rdx),%r11d ;\*aaload

; - jnt.scimark2.LU::factor@28 (line 180)

0x000000010aee4650: mov 0xc(%r12,%r11,8),%ebp ; implicit exception: dispatches to 0x000000010aee4e4d

0x000000010aee4655: cmp %ebp,%ecx

0x000000010aee4657: jae L002b ;\*daload

; - jnt.scimark2.LU::factor@31 (line 180)

0x000000010aee465d: vmovd %eax,%xmm4

0x000000010aee4661: mov %r8d,(%rsp)

0x000000010aee4665: mov %r10d,0x14(%rsp)

0x000000010aee466a: vmovq %rsi,%xmm2

0x000000010aee466f: mov %ecx,%r14d

0x000000010aee4672: add $0x2,%r14d

0x000000010aee4676: mov %ecx,%r13d

0x000000010aee4679: inc %r13d ;\*iadd

; - jnt.scimark2.LU::factor@40 (line 181)

0x000000010aee467c: cmp %r10d,%r13d

0x000000010aee467f: jge L0020 ;\*if\_icmplt

; - jnt.scimark2.LU::factor@80 (line 181)

0x000000010aee4685: lea (%r12,%r11,8),%r10

0x000000010aee4689: vmovsd 0x10(%r10,%rcx,8),%xmm0

0x000000010aee4690: vandpd -0x341b8(%rip),%xmm0,%xmm0 # Stub::double\_sign\_mask

;\*invokestatic abs

; - jnt.scimark2.LU::factor@32 (line 180)

; {external\_word}

0x000000010aee4698: cmp %r9d,%r13d

0x000000010aee469b: jae L002f

0x000000010aee46a1: cmp %r9d,%edi

0x000000010aee46a4: jae L002f

0x000000010aee46aa: mov %ecx,%r10d

0x000000010aee46ad: mov %r13d,%esi ;\*aload\_0

; - jnt.scimark2.LU::factor@46 (line 183)

L0002: vmovq %xmm2,%rax

0x000000010aee46b5: mov 0x10(%rax,%rsi,4),%ebp

0x000000010aee46b9: mov 0xc(%r12,%rbp,8),%r8d ; implicit exception: dispatches to 0x000000010aee4e11

0x000000010aee46be: lea (%r12,%rbp,8),%r11 ;\*aaload

; - jnt.scimark2.LU::factor@49 (line 183)

0x000000010aee46c2: cmp %r8d,%ecx

0x000000010aee46c5: jae L0029 ;\*daload

; - jnt.scimark2.LU::factor@52 (line 183)

0x000000010aee46cb: vmovsd 0x10(%r11,%rcx,8),%xmm2

0x000000010aee46d2: vandpd -0x341fa(%rip),%xmm2,%xmm2 # Stub::double\_sign\_mask

;\*invokestatic abs

; - jnt.scimark2.LU::factor@53 (line 183)

; {external\_word}

0x000000010aee46da: vucomisd %xmm0,%xmm2

0x000000010aee46de: ja L001e

L0003: inc %esi ;\*iinc

; - jnt.scimark2.LU::factor@74 (line 181)

0x000000010aee46e6: cmp %r14d,%esi

0x000000010aee46e9: jge L0004 ;\*if\_icmplt

; - jnt.scimark2.LU::factor@80 (line 181)

0x000000010aee46eb: vmovq %rax,%xmm2

0x000000010aee46f0: jmp L0002

L0004: cmp %edi,%esi

0x000000010aee46f4: jge L0030

0x000000010aee46fa: jmp L0007

L0005: mov %ebp,%r10d

0x000000010aee46ff: vmovapd %xmm2,%xmm0

L0006: add $0x2,%esi ;\*iinc

; - jnt.scimark2.LU::factor@74 (line 181)

0x000000010aee4706: cmp %edi,%esi

0x000000010aee4708: jge L000a ;\*aload\_0

; - jnt.scimark2.LU::factor@46 (line 183)

L0007: mov 0x10(%rax,%rsi,4),%ebp

0x000000010aee470e: mov 0xc(%r12,%rbp,8),%r8d ; implicit exception: dispatches to 0x000000010aee4e11

0x000000010aee4713: lea (%r12,%rbp,8),%r11 ;\*aaload

; - jnt.scimark2.LU::factor@49 (line 183)

0x000000010aee4717: cmp %r8d,%ecx

0x000000010aee471a: jae L0022 ;\*daload

; - jnt.scimark2.LU::factor@52 (line 183)

0x000000010aee4720: vmovsd 0x10(%r11,%rcx,8),%xmm2

0x000000010aee4727: vandpd -0x3424f(%rip),%xmm2,%xmm2 # Stub::double\_sign\_mask

;\*invokestatic abs

; - jnt.scimark2.LU::factor@53 (line 183)

; {external\_word}

0x000000010aee472f: vucomisd %xmm0,%xmm2

0x000000010aee4733: ja L0009 ;\*iinc

; - jnt.scimark2.LU::factor@74 (line 181)

L0008: movslq %esi,%r11

0x000000010aee4738: mov 0x14(%rax,%r11,4),%ebp

0x000000010aee473d: mov 0xc(%r12,%rbp,8),%r8d ; implicit exception: dispatches to 0x000000010aee4e11

0x000000010aee4742: lea (%r12,%rbp,8),%r11 ;\*aaload

; - jnt.scimark2.LU::factor@49 (line 183)

0x000000010aee4746: mov %esi,%ebp

0x000000010aee4748: inc %ebp ;\*iinc

; - jnt.scimark2.LU::factor@74 (line 181)

0x000000010aee474a: cmp %r8d,%ecx

0x000000010aee474d: jae L0023 ;\*daload

; - jnt.scimark2.LU::factor@52 (line 183)

0x000000010aee4753: vmovsd 0x10(%r11,%rcx,8),%xmm2

0x000000010aee475a: vandpd -0x34282(%rip),%xmm2,%xmm2 # Stub::double\_sign\_mask

;\*invokestatic abs

; - jnt.scimark2.LU::factor@53 (line 183)

; {external\_word}

0x000000010aee4762: vucomisd %xmm0,%xmm2

0x000000010aee4766: ja L0005 ;\*ifle

; - jnt.scimark2.LU::factor@63 (line 184)

0x000000010aee4768: jmp L0006

L0009: mov %esi,%r10d

0x000000010aee476d: vmovapd %xmm2,%xmm0

0x000000010aee4771: jmp L0008

L000a: vmovq %rax,%xmm2

L000b: cmp 0x14(%rsp),%esi

0x000000010aee477c: jge L000f ;\*aload\_0

; - jnt.scimark2.LU::factor@46 (line 183)

L000c: vmovq %xmm2,%rax

0x000000010aee4783: mov 0x10(%rax,%rsi,4),%ebp

0x000000010aee4787: mov 0xc(%r12,%rbp,8),%r8d ; implicit exception: dispatches to 0x000000010aee4e11

0x000000010aee478c: lea (%r12,%rbp,8),%r11 ;\*aaload

; - jnt.scimark2.LU::factor@49 (line 183)

0x000000010aee4790: cmp %r8d,%ecx

0x000000010aee4793: jae L0031 ;\*daload

; - jnt.scimark2.LU::factor@52 (line 183)

0x000000010aee4799: vmovsd 0x10(%r11,%rcx,8),%xmm2

0x000000010aee47a0: vandpd -0x342c8(%rip),%xmm2,%xmm2 # Stub::double\_sign\_mask

;\*invokestatic abs

; - jnt.scimark2.LU::factor@53 (line 183)

; {external\_word}

0x000000010aee47a8: vucomisd %xmm0,%xmm2

0x000000010aee47ac: ja L001f

L000d: inc %esi ;\*iinc

; - jnt.scimark2.LU::factor@74 (line 181)

0x000000010aee47b4: cmp 0x14(%rsp),%esi

0x000000010aee47b8: jge L000e ;\*if\_icmplt

; - jnt.scimark2.LU::factor@80 (line 181)

0x000000010aee47ba: vmovq %rax,%xmm2

0x000000010aee47bf: jmp L000c

L000e: vmovq %rax,%xmm2 ;\*aload\_1

; - jnt.scimark2.LU::factor@83 (line 191)

L000f: vmovq %xmm1,%r11

0x000000010aee47cb: mov %r10d,0x10(%r11,%rcx,4) ;\*iastore

; - jnt.scimark2.LU::factor@88 (line 191)

0x000000010aee47d0: cmp %r9d,%r10d

0x000000010aee47d3: jae L002c

0x000000010aee47d9: vmovq %xmm2,%r11

0x000000010aee47de: lea 0x10(%r11,%r10,4),%rsi

0x000000010aee47e3: mov (%rsi),%ebp ;\*aaload

; - jnt.scimark2.LU::factor@92 (line 196)

0x000000010aee47e5: mov 0xc(%r12,%rbp,8),%r8d ; implicit exception: dispatches to 0x000000010aee4e61

0x000000010aee47ea: cmp %r8d,%ecx

0x000000010aee47ed: jae L002d

0x000000010aee47f3: lea (%r12,%rbp,8),%r11

0x000000010aee47f7: vmovsd 0x10(%r11,%rcx,8),%xmm0 ;\*daload

; - jnt.scimark2.LU::factor@95 (line 196)

0x000000010aee47fe: vucomisd -0x286(%rip),%xmm0 # 0x000000010aee4580

; {section\_word}

0x000000010aee4806: jp L0010

0x000000010aee4808: je L0035 ;\*ifne

; - jnt.scimark2.LU::factor@98 (line 196)

L0010: cmp %ecx,%r10d

0x000000010aee4811: je L0011 ;\*if\_icmpeq

; - jnt.scimark2.LU::factor@107 (line 200)

0x000000010aee4813: mov (%rdx),%r11d ;\*aaload

; - jnt.scimark2.LU::factor@113 (line 203)

0x000000010aee4816: mov %ebp,(%rdx) ;\*aastore

; - jnt.scimark2.LU::factor@123 (line 204)

0x000000010aee4818: mov %r11d,(%rsi) ;\*aastore

; - jnt.scimark2.LU::factor@129 (line 205)

0x000000010aee481b: mov %rdx,%r11

0x000000010aee481e: mov %rsi,%r10

0x000000010aee4821: shr $0x9,%r11

0x000000010aee4825: movabs $0x10527e000,%r8

0x000000010aee482f: mov %r12b,(%r8,%r11,1) ;\*aastore

; - jnt.scimark2.LU::factor@123 (line 204)

0x000000010aee4833: shr $0x9,%r10

0x000000010aee4837: movabs $0x10527e000,%r11

0x000000010aee4841: mov %r12b,(%r11,%r10,1) ;\*iload

; - jnt.scimark2.LU::factor@130 (line 208)

L0011: cmp %edi,%ecx

0x000000010aee4847: jge L0017 ;\*if\_icmpge

; - jnt.scimark2.LU::factor@135 (line 208)

0x000000010aee484d: mov (%rdx),%ebp ;\*aaload

; - jnt.scimark2.LU::factor@142 (line 213)

0x000000010aee484f: mov 0xc(%r12,%rbp,8),%r11d ; implicit exception: dispatches to 0x000000010aee4e75

0x000000010aee4854: cmp %r11d,%ecx

0x000000010aee4857: jae L002e ;\*daload

; - jnt.scimark2.LU::factor@145 (line 213)

0x000000010aee485d: cmp 0x14(%rsp),%r13d

0x000000010aee4862: jge L0017 ;\*if\_icmplt

; - jnt.scimark2.LU::factor@176 (line 215)

0x000000010aee4868: lea (%r12,%rbp,8),%r10

0x000000010aee486c: vdivsd 0x10(%r10,%rcx,8),%xmm3,%xmm0 ;\*ddiv

; - jnt.scimark2.LU::factor@146 (line 213)

0x000000010aee4873: cmp %r9d,%r13d

0x000000010aee4876: jae L0032

0x000000010aee487c: cmp %r9d,%edi

0x000000010aee487f: jae L0032

0x000000010aee4885: mov %r13d,%r8d ;\*aload\_0

; - jnt.scimark2.LU::factor@158 (line 216)

L0012: vmovq %xmm2,%r10

0x000000010aee488d: mov 0x10(%r10,%r8,4),%r11d

0x000000010aee4892: mov 0xc(%r12,%r11,8),%r10d ; implicit exception: dispatches to 0x000000010aee4e25

0x000000010aee4897: lea (%r12,%r11,8),%rax ;\*aaload

; - jnt.scimark2.LU::factor@161 (line 216)

0x000000010aee489b: cmp %r10d,%ecx

0x000000010aee489e: jae L002a ;\*daload

; - jnt.scimark2.LU::factor@165 (line 216)

0x000000010aee48a4: vmulsd 0x10(%rax,%rcx,8),%xmm0,%xmm5

0x000000010aee48aa: vmovsd %xmm5,0x10(%rax,%rcx,8) ;\*dastore

; - jnt.scimark2.LU::factor@169 (line 216)

0x000000010aee48b0: inc %r8d ;\*iinc

; - jnt.scimark2.LU::factor@170 (line 215)

0x000000010aee48b3: cmp %r14d,%r8d

0x000000010aee48b6: jl L0012 ;\*if\_icmplt

; - jnt.scimark2.LU::factor@176 (line 215)

0x000000010aee48b8: cmp %edi,%r8d

0x000000010aee48bb: jge L0015

0x000000010aee48bd: jmp L0014

0x000000010aee48bf: nop

L0013: vmovq %rbp,%xmm2 ;\*aload\_0

; - jnt.scimark2.LU::factor@158 (line 216)

L0014: vmovq %xmm2,%rbp

0x000000010aee48ca: mov 0x10(%rbp,%r8,4),%esi

0x000000010aee48cf: mov 0xc(%r12,%rsi,8),%r11d ; implicit exception: dispatches to 0x000000010aee4e25

0x000000010aee48d4: lea (%r12,%rsi,8),%rax ;\*aaload

; - jnt.scimark2.LU::factor@161 (line 216)

0x000000010aee48d8: cmp %r11d,%ecx

0x000000010aee48db: jae L0026 ;\*daload

; - jnt.scimark2.LU::factor@165 (line 216)

0x000000010aee48e1: vmulsd 0x10(%rax,%rcx,8),%xmm0,%xmm2

0x000000010aee48e7: vmovsd %xmm2,0x10(%rax,%rcx,8) ;\*dastore

; - jnt.scimark2.LU::factor@169 (line 216)

0x000000010aee48ed: movslq %r8d,%r10

0x000000010aee48f0: mov 0x14(%rbp,%r10,4),%r11d

0x000000010aee48f5: mov 0xc(%r12,%r11,8),%r10d ; implicit exception: dispatches to 0x000000010aee4e25

0x000000010aee48fa: lea (%r12,%r11,8),%rax ;\*aaload

; - jnt.scimark2.LU::factor@161 (line 216)

0x000000010aee48fe: cmp %r10d,%ecx

0x000000010aee4901: jae L0025 ;\*daload

; - jnt.scimark2.LU::factor@165 (line 216)

0x000000010aee4907: vmulsd 0x10(%rax,%rcx,8),%xmm0,%xmm2

0x000000010aee490d: vmovsd %xmm2,0x10(%rax,%rcx,8) ;\*dastore

; - jnt.scimark2.LU::factor@169 (line 216)

0x000000010aee4913: add $0x2,%r8d ;\*iinc

; - jnt.scimark2.LU::factor@170 (line 215)

0x000000010aee4917: cmp %edi,%r8d

0x000000010aee491a: jl L0013 ;\*if\_icmplt

; - jnt.scimark2.LU::factor@176 (line 215)

0x000000010aee491c: vmovq %rbp,%xmm2

L0015: cmp 0x14(%rsp),%r8d

0x000000010aee4926: jge L0017 ;\*aload\_0

; - jnt.scimark2.LU::factor@158 (line 216)

L0016: vmovq %xmm2,%r10

0x000000010aee492d: mov 0x10(%r10,%r8,4),%esi

0x000000010aee4932: mov 0xc(%r12,%rsi,8),%r11d ; implicit exception: dispatches to 0x000000010aee4e25

0x000000010aee4937: lea (%r12,%rsi,8),%rax ;\*aaload

; - jnt.scimark2.LU::factor@161 (line 216)

0x000000010aee493b: cmp %r11d,%ecx

0x000000010aee493e: jae L0033 ;\*daload

; - jnt.scimark2.LU::factor@165 (line 216)

0x000000010aee4944: vmulsd 0x10(%rax,%rcx,8),%xmm0,%xmm5

0x000000010aee494a: vmovsd %xmm5,0x10(%rax,%rcx,8) ;\*dastore

; - jnt.scimark2.LU::factor@169 (line 216)

0x000000010aee4950: inc %r8d ;\*iinc

; - jnt.scimark2.LU::factor@170 (line 215)

0x000000010aee4953: cmp 0x14(%rsp),%r8d

0x000000010aee4958: jl L0016 ;\*iload

; - jnt.scimark2.LU::factor@179 (line 220)

L0017: cmp (%rsp),%ecx

0x000000010aee495d: jge L0000 ;\*if\_icmpge

; - jnt.scimark2.LU::factor@185 (line 220)

0x000000010aee4963: cmp 0x14(%rsp),%r13d

0x000000010aee4968: jge L0000 ;\*if\_icmplt

; - jnt.scimark2.LU::factor@256 (line 229)

0x000000010aee496e: cmp %r9d,%r13d

0x000000010aee4971: jae L0034

0x000000010aee4977: cmp %r9d,%edi

0x000000010aee497a: jae L0034 ;\*aload\_0

; - jnt.scimark2.LU::factor@197 (line 231)

0x000000010aee4980: mov (%rdx),%r10d ;\*aaload

; - jnt.scimark2.LU::factor@206 (line 232)

0x000000010aee4983: lea (%r12,%r10,8),%rdx

0x000000010aee4987: mov %r13d,%r8d

0x000000010aee498a: jmp L001a ;\*aload

; - jnt.scimark2.LU::factor@225 (line 235)

L0018: vmovsd 0x10(%rdx,%rsi,8),%xmm5 ;\*daload

; - jnt.scimark2.LU::factor@237 (line 235)

0x000000010aee4992: vmovsd 0x10(%rax,%rsi,8),%xmm6

0x000000010aee4998: vmulsd %xmm0,%xmm5,%xmm5

0x000000010aee499c: vsubsd %xmm5,%xmm6,%xmm5

0x000000010aee49a0: vmovsd %xmm5,0x10(%rax,%rsi,8) ;\*dastore

; - jnt.scimark2.LU::factor@240 (line 235)

0x000000010aee49a6: inc %esi ;\*iinc

; - jnt.scimark2.LU::factor@241 (line 234)

0x000000010aee49a8: cmp %r9d,%esi

0x000000010aee49ab: jl L0018

L0019: inc %r8d ;\*iinc

; - jnt.scimark2.LU::factor@250 (line 229)

0x000000010aee49b0: cmp 0x14(%rsp),%r8d

0x000000010aee49b5: jge L0000 ;\*aload\_0

; - jnt.scimark2.LU::factor@197 (line 231)

L001a: vmovq %xmm2,%r11

0x000000010aee49c0: mov 0x10(%r11,%r8,4),%r11d ;\*aaload

; - jnt.scimark2.LU::factor@200 (line 231)

0x000000010aee49c5: mov 0xc(%r12,%r11,8),%esi ; implicit exception: dispatches to 0x000000010aee4e39

0x000000010aee49ca: cmp %esi,%ecx

0x000000010aee49cc: jae L0027 ;\*daload

; - jnt.scimark2.LU::factor@213 (line 233)

0x000000010aee49d2: cmp %r9d,%r13d

0x000000010aee49d5: jge L0019 ;\*if\_icmplt

; - jnt.scimark2.LU::factor@247 (line 234)

0x000000010aee49d7: lea (%r12,%r11,8),%rax

0x000000010aee49db: vmovsd 0x10(%rax,%rcx,8),%xmm0 ;\*daload

; - jnt.scimark2.LU::factor@213 (line 233)

0x000000010aee49e1: cmp %esi,%r13d

0x000000010aee49e4: jae L0028

0x000000010aee49ea: vmovd %xmm4,%ebp

0x000000010aee49ee: cmp %esi,%ebp

0x000000010aee49f0: jae L0028 ;\*aload

; - jnt.scimark2.LU::factor@225 (line 235)

0x000000010aee49f6: mov 0xc(%r12,%r10,8),%esi ;\*daload

; - jnt.scimark2.LU::factor@237 (line 235)

; implicit exception: dispatches to 0x000000010aee4b79

0x000000010aee49fb: cmp %esi,%r13d

0x000000010aee49fe: jae L0028

0x000000010aee4a04: cmp %esi,%ebp

0x000000010aee4a06: jae L0028

0x000000010aee4a0c: mov %eax,%esi

0x000000010aee4a0e: shr $0x3,%esi

0x000000010aee4a11: and $0x3,%esi

0x000000010aee4a14: add %r14d,%esi

0x000000010aee4a17: mov $0x2,%ebp

0x000000010aee4a1c: sub %esi,%ebp

0x000000010aee4a1e: and $0x3,%ebp

0x000000010aee4a21: add %r14d,%ebp

0x000000010aee4a24: cmp %r9d,%ebp

0x000000010aee4a27: cmovg %r9d,%ebp

0x000000010aee4a2b: mov %r13d,%esi ;\*aload

; - jnt.scimark2.LU::factor@225 (line 235)

L001b: vmovsd 0x10(%rdx,%rsi,8),%xmm5 ;\*daload

; - jnt.scimark2.LU::factor@237 (line 235)

0x000000010aee4a34: vmovsd 0x10(%rax,%rsi,8),%xmm6

0x000000010aee4a3a: vmulsd %xmm0,%xmm5,%xmm5

0x000000010aee4a3e: vsubsd %xmm5,%xmm6,%xmm5

0x000000010aee4a42: vmovsd %xmm5,0x10(%rax,%rsi,8) ;\*dastore

; - jnt.scimark2.LU::factor@240 (line 235)

0x000000010aee4a48: inc %esi ;\*iinc

; - jnt.scimark2.LU::factor@241 (line 234)

0x000000010aee4a4a: cmp %ebp,%esi

0x000000010aee4a4c: jl L001b ;\*if\_icmplt

; - jnt.scimark2.LU::factor@247 (line 234)

0x000000010aee4a4e: cmp %ebx,%esi

0x000000010aee4a50: jge L001d

0x000000010aee4a52: vpshufd $0x44,%xmm0,%xmm5

0x000000010aee4a57: vinsertf128 $0x1,%xmm5,%ymm5,%ymm5

0x000000010aee4a5d: data32 xchg %ax,%ax ;\*aload

; - jnt.scimark2.LU::factor@225 (line 235)

L001c: vmovdqu 0x10(%rdx,%rsi,8),%ymm6

0x000000010aee4a66: vmovdqu 0x10(%rax,%rsi,8),%ymm7

0x000000010aee4a6c: vmulpd %ymm5,%ymm6,%ymm6

0x000000010aee4a70: vsubpd %ymm6,%ymm7,%ymm6

0x000000010aee4a74: vmovdqu %ymm6,0x10(%rax,%rsi,8) ;\*dastore

; - jnt.scimark2.LU::factor@240 (line 235)

0x000000010aee4a7a: add $0x4,%esi ;\*iinc

; - jnt.scimark2.LU::factor@241 (line 234)

0x000000010aee4a7d: cmp %ebx,%esi

0x000000010aee4a7f: jl L001c ;\*if\_icmplt

; - jnt.scimark2.LU::factor@247 (line 234)

L001d: cmp %r9d,%esi

0x000000010aee4a84: jl L0018

0x000000010aee4a8a: jmpq L0019

L001e: mov %esi,%r10d

0x000000010aee4a92: vmovapd %xmm2,%xmm0

0x000000010aee4a96: jmpq L0003

L001f: vmovapd %xmm2,%xmm0

0x000000010aee4a9f: mov %esi,%r10d

0x000000010aee4aa2: jmpq L000d

L0020: mov %ecx,%r10d

0x000000010aee4aaa: jmpq L000f ;\*iconst\_0

; - jnt.scimark2.LU::factor@269 (line 241)

L0021: xor %eax,%eax

0x000000010aee4ab1: vzeroupper

0x000000010aee4ab4: add $0x50,%rsp

0x000000010aee4ab8: pop %rbp

0x000000010aee4ab9: test %eax,-0x4f53abf(%rip) # 0x0000000105f91000

; {poll\_return} \*\*\* SAFEPOINT POLL \*\*\*

0x000000010aee4abf: retq

L0022: mov %esi,%ebp

L0023: vmovsd %xmm0,(%rsp)

L0024: mov $0xffffffe4,%esi

0x000000010aee4acc: mov %rax,0x8(%rsp)

0x000000010aee4ad1: mov %r9d,0x10(%rsp)

0x000000010aee4ad6: mov %r10d,0x1c(%rsp)

0x000000010aee4adb: mov %r11,0x20(%rsp)

0x000000010aee4ae0: mov %ecx,0x28(%rsp)

0x000000010aee4ae4: vmovsd %xmm1,0x30(%rsp)

0x000000010aee4aea: xchg %ax,%ax

0x000000010aee4aec: vzeroupper

0x000000010aee4aef: callq 0x000000010aea36a0 ; OopMap{[8]=Oop [32]=Oop [48]=Oop off=1364}

;\*daload

; - jnt.scimark2.LU::factor@52 (line 183)

; {runtime\_call}

0x000000010aee4af4: callq 0x0000000107c8b424 ;\*daload

; - jnt.scimark2.LU::factor@52 (line 183)

; {runtime\_call}

L0025: inc %r8d

L0026: mov $0xffffffe4,%esi

0x000000010aee4b01: mov %r9d,(%rsp)

0x000000010aee4b05: mov 0x14(%rsp),%r11d

0x000000010aee4b0a: mov %r11d,0x4(%rsp)

0x000000010aee4b0f: vmovsd %xmm0,0x10(%rsp)

0x000000010aee4b15: mov %r8d,0xc(%rsp)

0x000000010aee4b1a: mov %ecx,0x20(%rsp)

0x000000010aee4b1e: mov %rax,0x28(%rsp)

0x000000010aee4b23: mov %ecx,0x24(%rsp)

0x000000010aee4b27: vmovsd %xmm1,0x30(%rsp)

0x000000010aee4b2d: data32 xchg %ax,%ax

0x000000010aee4b30: vzeroupper

0x000000010aee4b33: callq 0x000000010aea36a0 ; OopMap{rbp=Oop [40]=Oop [48]=Oop off=1432}

;\*daload

; - jnt.scimark2.LU::factor@165 (line 216)

; {runtime\_call}

0x000000010aee4b38: callq 0x0000000107c8b424 ; {runtime\_call}

L0027: mov $0xffffffe4,%esi

0x000000010aee4b42: vmovq %xmm2,%rbp

0x000000010aee4b47: mov %r9d,(%rsp)

0x000000010aee4b4b: mov 0x14(%rsp),%ebx

0x000000010aee4b4f: mov %ebx,0x4(%rsp)

0x000000010aee4b53: mov %r8d,0xc(%rsp)

0x000000010aee4b58: mov %r10d,0x14(%rsp)

0x000000010aee4b5d: mov %r11d,0x18(%rsp)

0x000000010aee4b62: mov %ecx,0x1c(%rsp)

0x000000010aee4b66: vmovsd %xmm1,0x20(%rsp)

0x000000010aee4b6c: vzeroupper

0x000000010aee4b6f: callq 0x000000010aea36a0 ; OopMap{rbp=Oop [20]=NarrowOop [24]=NarrowOop [32]=Oop off=1492}

;\*daload

; - jnt.scimark2.LU::factor@213 (line 233)

; {runtime\_call}

0x000000010aee4b74: callq 0x0000000107c8b424 ; {runtime\_call}

L0028: mov $0xffffff86,%esi

0x000000010aee4b7e: vmovq %xmm2,%rbp

0x000000010aee4b83: mov %r9d,(%rsp)

0x000000010aee4b87: mov 0x14(%rsp),%r9d

0x000000010aee4b8c: mov %r9d,0x4(%rsp)

0x000000010aee4b91: mov %ecx,0x8(%rsp)

0x000000010aee4b95: mov %r8d,0xc(%rsp)

0x000000010aee4b9a: mov %r11d,0x10(%rsp)

0x000000010aee4b9f: mov %r10d,0x14(%rsp)

0x000000010aee4ba4: vmovsd %xmm0,0x18(%rsp)

0x000000010aee4baa: mov %r13d,0x20(%rsp)

0x000000010aee4baf: vmovsd %xmm1,0x28(%rsp)

0x000000010aee4bb5: data32 xchg %ax,%ax

0x000000010aee4bb8: vzeroupper

0x000000010aee4bbb: callq 0x000000010aea36a0 ; OopMap{rbp=Oop [16]=NarrowOop [20]=NarrowOop [40]=Oop off=1568}

;\*aload

; - jnt.scimark2.LU::factor@225 (line 235)

; {runtime\_call}

0x000000010aee4bc0: callq 0x0000000107c8b424 ;\*aload

; - jnt.scimark2.LU::factor@225 (line 235)

; {runtime\_call}

L0029: mov %esi,%ebp

0x000000010aee4bc7: jmpq L0023

L002a: vmovq %xmm2,%rbp

0x000000010aee4bd1: jmpq L0026

L002b: mov %rsi,%rbp

0x000000010aee4bd9: mov %r9d,(%rsp)

0x000000010aee4bdd: mov %r10d,0x4(%rsp)

0x000000010aee4be2: mov %ecx,0xc(%rsp)

0x000000010aee4be6: mov %r11d,0x10(%rsp)

0x000000010aee4beb: mov %ecx,0x14(%rsp)

0x000000010aee4bef: vmovsd %xmm1,0x18(%rsp)

0x000000010aee4bf5: mov $0xffffffe4,%esi

0x000000010aee4bfa: xchg %ax,%ax

0x000000010aee4bfc: vzeroupper

0x000000010aee4bff: callq 0x000000010aea36a0 ; OopMap{rbp=Oop [16]=NarrowOop [24]=Oop off=1636}

;\*daload

; - jnt.scimark2.LU::factor@31 (line 180)

; {runtime\_call}

0x000000010aee4c04: callq 0x0000000107c8b424 ; {runtime\_call}

L002c: mov $0xffffffe4,%esi

0x000000010aee4c0e: mov %r9d,(%rsp)

0x000000010aee4c12: mov 0x14(%rsp),%r8d

0x000000010aee4c17: mov %r8d,0x4(%rsp)

0x000000010aee4c1c: mov %ecx,0x8(%rsp)

0x000000010aee4c20: vmovsd %xmm2,0x10(%rsp)

0x000000010aee4c26: mov %r10d,0x18(%rsp)

0x000000010aee4c2b: mov %r11,0x20(%rsp)

0x000000010aee4c30: vzeroupper

0x000000010aee4c33: callq 0x000000010aea36a0 ; OopMap{[16]=Oop [32]=Oop off=1688}

;\*aaload

; - jnt.scimark2.LU::factor@92 (line 196)

; {runtime\_call}

0x000000010aee4c38: callq 0x0000000107c8b424 ; {runtime\_call}

L002d: mov $0xffffffe4,%esi

0x000000010aee4c42: vmovsd %xmm2,(%rsp)

0x000000010aee4c47: mov %r9d,0x8(%rsp)

0x000000010aee4c4c: mov 0x14(%rsp),%r11d

0x000000010aee4c51: mov %r11d,0xc(%rsp)

0x000000010aee4c56: mov %r10d,0x14(%rsp)

0x000000010aee4c5b: mov %ecx,0x18(%rsp)

0x000000010aee4c5f: vmovsd %xmm1,0x20(%rsp)

0x000000010aee4c65: data32 xchg %ax,%ax

0x000000010aee4c68: vzeroupper

0x000000010aee4c6b: callq 0x000000010aea36a0 ; OopMap{rbp=NarrowOop [0]=Oop [32]=Oop off=1744}

;\*daload

; - jnt.scimark2.LU::factor@95 (line 196)

; {runtime\_call}

0x000000010aee4c70: callq 0x0000000107c8b424 ; {runtime\_call}

L002e: mov $0xffffffe4,%esi

0x000000010aee4c7a: vmovsd %xmm2,(%rsp)

0x000000010aee4c7f: mov %r9d,0x8(%rsp)

0x000000010aee4c84: mov 0x14(%rsp),%r11d

0x000000010aee4c89: mov %r11d,0xc(%rsp)

0x000000010aee4c8e: mov %ecx,0x14(%rsp)

0x000000010aee4c92: vmovsd %xmm1,0x18(%rsp)

0x000000010aee4c98: vzeroupper

0x000000010aee4c9b: callq 0x000000010aea36a0 ; OopMap{rbp=NarrowOop [0]=Oop [24]=Oop off=1792}

;\*daload

; - jnt.scimark2.LU::factor@145 (line 213)

; {runtime\_call}

0x000000010aee4ca0: callq 0x0000000107c8b424 ;\*daload

; - jnt.scimark2.LU::factor@145 (line 213)

; {runtime\_call}

L002f: mov $0xffffff86,%esi

0x000000010aee4caa: vmovq %xmm2,%rbp

0x000000010aee4caf: mov %r9d,(%rsp)

0x000000010aee4cb3: mov 0x14(%rsp),%r10d

0x000000010aee4cb8: mov %r10d,0x4(%rsp)

0x000000010aee4cbd: mov %ecx,0xc(%rsp)

0x000000010aee4cc1: vmovsd %xmm0,0x10(%rsp)

0x000000010aee4cc7: mov %r13d,0x18(%rsp)

0x000000010aee4ccc: vmovsd %xmm1,0x20(%rsp)

0x000000010aee4cd2: xchg %ax,%ax

0x000000010aee4cd4: vzeroupper

0x000000010aee4cd7: callq 0x000000010aea36a0 ; OopMap{rbp=Oop [32]=Oop off=1852}

;\*aload\_0

; - jnt.scimark2.LU::factor@46 (line 183)

; {runtime\_call}

0x000000010aee4cdc: callq 0x0000000107c8b424 ;\*aload\_0

; - jnt.scimark2.LU::factor@46 (line 183)

; {runtime\_call}

L0030: vmovq %rax,%xmm2

0x000000010aee4ce6: jmpq L000b

L0031: mov %esi,%ebp

0x000000010aee4ced: vmovsd %xmm0,(%rsp)

0x000000010aee4cf2: jmpq L0024

L0032: mov $0xffffff86,%esi

0x000000010aee4cfc: vmovq %xmm2,%rbp

0x000000010aee4d01: mov %r9d,(%rsp)

0x000000010aee4d05: mov 0x14(%rsp),%r10d

0x000000010aee4d0a: mov %r10d,0x4(%rsp)

0x000000010aee4d0f: mov %ecx,0x8(%rsp)

0x000000010aee4d13: vmovsd %xmm0,0x10(%rsp)

0x000000010aee4d19: mov %r13d,0xc(%rsp)

0x000000010aee4d1e: vmovsd %xmm1,0x18(%rsp)

0x000000010aee4d24: vzeroupper

0x000000010aee4d27: callq 0x000000010aea36a0 ; OopMap{rbp=Oop [24]=Oop off=1932}

;\*aload\_0

; - jnt.scimark2.LU::factor@158 (line 216)

; {runtime\_call}

0x000000010aee4d2c: callq 0x0000000107c8b424 ;\*aload\_0

; - jnt.scimark2.LU::factor@158 (line 216)

; {runtime\_call}

L0033: vmovq %xmm2,%rbp

0x000000010aee4d36: jmpq L0026

L0034: mov $0xffffff86,%esi

0x000000010aee4d40: vmovq %xmm2,%rbp

0x000000010aee4d45: mov %r9d,(%rsp)

0x000000010aee4d49: mov 0x14(%rsp),%r10d

0x000000010aee4d4e: mov %r10d,0x4(%rsp)

0x000000010aee4d53: mov %ecx,0x8(%rsp)

0x000000010aee4d57: mov %r13d,0xc(%rsp)

0x000000010aee4d5c: vmovsd %xmm1,0x10(%rsp)

0x000000010aee4d62: xchg %ax,%ax

0x000000010aee4d64: vzeroupper

0x000000010aee4d67: callq 0x000000010aea36a0 ; OopMap{rbp=Oop [16]=Oop off=1996}

;\*aload\_0

; - jnt.scimark2.LU::factor@197 (line 231)

; {runtime\_call}

0x000000010aee4d6c: callq 0x0000000107c8b424 ;\*iload

; - jnt.scimark2.LU::factor@21 (line 178)

; {runtime\_call}

L0035: vucomisd -0x7f9(%rip),%xmm0 # 0x000000010aee4580

; {section\_word}

0x000000010aee4d79: mov $0xffffffff,%ebp

0x000000010aee4d7e: jp L0036

0x000000010aee4d84: jb L0036

0x000000010aee4d8a: setne %bpl

0x000000010aee4d8e: movzbl %bpl,%ebp ;\*dcmpl

; - jnt.scimark2.LU::factor@97 (line 196)

L0036: mov $0xffffff65,%esi

0x000000010aee4d97: vmovsd %xmm2,(%rsp)

0x000000010aee4d9c: mov %r9d,0x8(%rsp)

0x000000010aee4da1: mov 0x14(%rsp),%r8d

0x000000010aee4da6: mov %r8d,0xc(%rsp)

0x000000010aee4dab: mov %ecx,0x10(%rsp)

0x000000010aee4daf: mov %r10d,0x14(%rsp)

0x000000010aee4db4: vmovsd %xmm1,0x18(%rsp)

0x000000010aee4dba: xchg %ax,%ax

0x000000010aee4dbc: vzeroupper

0x000000010aee4dbf: callq 0x000000010aea36a0 ; OopMap{[0]=Oop [24]=Oop off=2084}

;\*ifne

; - jnt.scimark2.LU::factor@98 (line 196)

; {runtime\_call}

0x000000010aee4dc4: callq 0x0000000107c8b424 ;\*ifne

; - jnt.scimark2.LU::factor@98 (line 196)

; {runtime\_call}

L0037: mov %rsi,%rbp

0x000000010aee4dcc: mov %r9d,(%rsp)

0x000000010aee4dd0: mov %r10d,0x4(%rsp)

0x000000010aee4dd5: mov %rdx,0x8(%rsp)

0x000000010aee4dda: mov %r11d,0x10(%rsp)

0x000000010aee4ddf: mov $0xffffff86,%esi

0x000000010aee4de4: vzeroupper

0x000000010aee4de7: callq 0x000000010aea36a0 ; OopMap{rbp=Oop [8]=Oop off=2124}

;\*iload

; - jnt.scimark2.LU::factor@21 (line 178)

; {runtime\_call}

0x000000010aee4dec: callq 0x0000000107c8b424 ;\*iload

; - jnt.scimark2.LU::factor@21 (line 178)

; {runtime\_call}

L0038: mov %r9d,(%rsp)

0x000000010aee4df5: mov %rsi,0x8(%rsp)

0x000000010aee4dfa: mov %rdx,0x10(%rsp)

0x000000010aee4dff: mov $0xffffffe4,%esi

0x000000010aee4e04: vzeroupper

0x000000010aee4e07: callq 0x000000010aea36a0 ; OopMap{[8]=Oop [16]=Oop off=2156}

;\*aaload

; - jnt.scimark2.LU::factor@5 (line 170)

; {runtime\_call}

0x000000010aee4e0c: callq 0x0000000107c8b424 ;\*aaload

; - jnt.scimark2.LU::factor@5 (line 170)

; {runtime\_call}

0x000000010aee4e11: mov $0xfffffff6,%esi

0x000000010aee4e16: mov %ecx,%ebp

0x000000010aee4e18: vzeroupper

0x000000010aee4e1b: callq 0x000000010aea36a0 ; OopMap{off=2176}

;\*daload

; - jnt.scimark2.LU::factor@52 (line 183)

; {runtime\_call}

0x000000010aee4e20: callq 0x0000000107c8b424 ; {runtime\_call}

0x000000010aee4e25: mov $0xfffffff6,%esi

0x000000010aee4e2a: mov %ecx,%ebp

0x000000010aee4e2c: vzeroupper

0x000000010aee4e2f: callq 0x000000010aea36a0 ; OopMap{off=2196}

;\*daload

; - jnt.scimark2.LU::factor@165 (line 216)

; {runtime\_call}

0x000000010aee4e34: callq 0x0000000107c8b424 ; {runtime\_call}

0x000000010aee4e39: mov $0xfffffff6,%esi

0x000000010aee4e3e: mov %ecx,%ebp

0x000000010aee4e40: vzeroupper

0x000000010aee4e43: callq 0x000000010aea36a0 ; OopMap{off=2216}

;\*daload

; - jnt.scimark2.LU::factor@213 (line 233)

; {runtime\_call}

0x000000010aee4e48: callq 0x0000000107c8b424 ;\*daload

; - jnt.scimark2.LU::factor@213 (line 233)

; {runtime\_call}

0x000000010aee4e4d: mov $0xfffffff6,%esi

0x000000010aee4e52: mov %ecx,%ebp

0x000000010aee4e54: vzeroupper

0x000000010aee4e57: callq 0x000000010aea36a0 ; OopMap{off=2236}

;\*daload

; - jnt.scimark2.LU::factor@31 (line 180)

; {runtime\_call}

0x000000010aee4e5c: callq 0x0000000107c8b424 ; {runtime\_call}

0x000000010aee4e61: mov $0xfffffff6,%esi

0x000000010aee4e66: mov %ecx,%ebp

0x000000010aee4e68: vzeroupper

0x000000010aee4e6b: callq 0x000000010aea36a0 ; OopMap{off=2256}

;\*daload

; - jnt.scimark2.LU::factor@95 (line 196)

; {runtime\_call}

0x000000010aee4e70: callq 0x0000000107c8b424 ; {runtime\_call}

0x000000010aee4e75: mov $0xfffffff6,%esi

0x000000010aee4e7a: mov %ecx,%ebp

0x000000010aee4e7c: vzeroupper

0x000000010aee4e7f: callq 0x000000010aea36a0 ; OopMap{off=2276}

;\*daload

; - jnt.scimark2.LU::factor@145 (line 213)

; {runtime\_call}

0x000000010aee4e84: callq 0x0000000107c8b424 ;\*daload

; - jnt.scimark2.LU::factor@145 (line 213)

; {runtime\_call}

0x000000010aee4e89: mov $0xfffffff6,%esi

0x000000010aee4e8e: xchg %ax,%ax

0x000000010aee4e90: vzeroupper

0x000000010aee4e93: callq 0x000000010aea36a0 ; OopMap{off=2296}

;\*arraylength

; - jnt.scimark2.LU::factor@1 (line 169)

; {runtime\_call}

0x000000010aee4e98: callq 0x0000000107c8b424 ;\*arraylength

; - jnt.scimark2.LU::factor@1 (line 169)

; {runtime\_call}

0x000000010aee4e9d: mov $0xfffffff6,%esi

0x000000010aee4ea2: xchg %ax,%ax

0x000000010aee4ea4: vzeroupper

0x000000010aee4ea7: callq 0x000000010aea36a0 ; OopMap{off=2316}

;\*arraylength

; - jnt.scimark2.LU::factor@6 (line 170)

; {runtime\_call}

0x000000010aee4eac: callq 0x0000000107c8b424 ;\*aload\_0

; - jnt.scimark2.LU::factor@158 (line 216)

; {runtime\_call}

0x000000010aee4eb1: hlt

0x000000010aee4eb2: hlt

0x000000010aee4eb3: hlt

0x000000010aee4eb4: hlt

0x000000010aee4eb5: hlt

0x000000010aee4eb6: hlt

0x000000010aee4eb7: hlt

0x000000010aee4eb8: hlt

0x000000010aee4eb9: hlt

0x000000010aee4eba: hlt

0x000000010aee4ebb: hlt

0x000000010aee4ebc: hlt

0x000000010aee4ebd: hlt

0x000000010aee4ebe: hlt

0x000000010aee4ebf: hlt

[Exception Handler]

[Stub Code]

0x000000010aee4ec0: jmpq 0x000000010aecbf60 ; {no\_reloc}

[Deopt Handler Code]

0x000000010aee4ec5: callq 0x000000010aee4eca

0x000000010aee4eca: subq $0x5,(%rsp)

0x000000010aee4ecf: jmpq 0x000000010aea5500 ; {runtime\_call}

0x000000010aee4ed4: hlt

0x000000010aee4ed5: hlt

0x000000010aee4ed6: hlt

0x000000010aee4ed7: hlt