# {method} {0x000000011412bc40} 'factor' '([[D[I)I' in 'jnt/scimark2/LU'

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

# parm1: rdx:rdx = '[I'

# [sp+0x90] (sp of caller)

[Entry Point]

0x00000001158138c0: mov %eax,-0x14000(%rsp) ; {no\_reloc} //方法开始

0x00000001158138c7: push %rbp //基址指针入栈

0x00000001158138c8: sub $0x80,%rsp ;\*aload\_0 //开辟栈空间

; - jnt.scimark2.LU::factor@0 (line 169)

0x00000001158138cf: mov %rdx,0x68(%rsp) //rdx入栈（rdx=pivot）

0x00000001158138d4: mov 0xc(%rsi),%eax ;\*arraylength //eax=存数组长度=N

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

; implicit exception: dispatches to 0x0000000115813c89

0x00000001158138d7: mov %eax,0x60(%rsp) //N入栈

0x00000001158138db: cmpl $0x0,0xc(%rsi) //比较0和N大小，是否超出范围

0x00000001158138e2: jbe L0013 //超出范围跳转异常

0x00000001158138e8: mov 0x10(%rsi),%edi //edi= A[0]，这里的aaload要两行

0x00000001158138eb: shl $0x3,%rdi ;\*aaload // rdi=A[0]

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

0x00000001158138ef: mov 0xc(%rdi),%edi ;\*arraylength //edi=A[0].length=M

（rdi是A[0],0XC是求长度）

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

; implicit exception: dispatches to 0x0000000115813c9b

0x00000001158138f2: cmp %eax,%edi //比较M和N大小

0x00000001158138f4: mov %rax,%rbx //rbx=minMN=N

0x00000001158138f7: cmovle %rdi,%rbx // rbx=minMN=M

0x00000001158138fb: mov %ebx,0x64(%rsp) //minMN入栈

0x00000001158138ff: mov $0x0,%ecx ;\*goto //ecx=j

; - jnt.scimark2.LU::factor@18 (line 174)

0x0000000115813904: nopl 0x0(%rax) ; OopMap{rsi=Oop rdx=Oop [104]=Oop off=72}

;\*if\_icmplt

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

L0000: test %eax,-0xdc7480e(%rip) # 0x0000000107b9f100

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

0x000000011581390e: cmp %ebx,%ecx //比较minNM和j的大小

0x0000000115813910: jge L0012 ;\*if\_icmplt //跳转

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

0x0000000115813916: movslq %ecx,%r8 //r8=j (多余)，为什么要移多一次？

0x0000000115813919: cmp 0xc(%rsi),%ecx //判断A.length是否越界

0x000000011581391c: jae L0014 //越界跳转

0x0000000115813922: mov 0x10(%rsi,%r8,4),%r8d //r8d=A[j]，这里的aaload要两行

0x0000000115813927: shl $0x3,%r8 ;\*aaload //r8= A[j]

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

0x000000011581392b: movslq %ecx,%r9 //r9=j(多余)，为什么要移多一次？

0x000000011581392e: cmp 0xc(%r8),%ecx ; implicit exception: dispatches to //判断A[j][j]是否越界

0x0000000115813ca9

0x0000000115813932: jae L0015 //越界跳转

0x0000000115813938: vmovsd 0x10(%r8,%r9,8),%xmm0 ;\*daload. //xmm0=A[jp][jp]

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

0x000000011581393f: vandpd -0xbaf8f17(%rip),%xmm0,%xmm0 # 0x0000000109d1aa30

;\*invokestatic abs

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

; {external\_word}

//xmm0=t（调用abs）

0x0000000115813947: mov %rcx,%r9 //r9=j=0

0x000000011581394a: inc %r9d //r9d=j+1=i

0x000000011581394d: mov %r9,%r11 //r11=i

0x0000000115813950: mov %rcx,%r13 //r13=j=jp

0x0000000115813953: jmpq L0003 ;\*goto

; - jnt.scimark2.LU::factor@43 (line 181)

L0001: movslq %r11d,%r14 //r14=i，r14多余，为什么要移多一次

0x000000011581395b: cmp 0xc(%rsi),%r11d

0x000000011581395f: jae L0016

0x0000000115813965: mov 0x10(%rsi,%r14,4),%r14d//r14d=A[i]，aaload要两行

0x000000011581396a: shl $0x3,%r14 ;\*aaload // r14=A[i]

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

0x000000011581396e: movslq %ecx,%rax //rax多余

0x0000000115813971: cmp 0xc(%r14),%ecx ; implicit exception: dispatches to 0x0000000115813cc5

0x0000000115813975: jae L0017

0x000000011581397b: vmovsd 0x10(%r14,%rax,8),%xmm1 ;\*daload //xmm1=A[i][j]

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

0x0000000115813982: vandpd -0xbaf8f5a(%rip),%xmm1,%xmm1 # 0x0000000109d1aa30

;\*invokestatic abs

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

; {external\_word}

//xmm1=ab （执行abs）

0x000000011581398a: vucomisd %xmm0,%xmm1 //判断ab>t

0x000000011581398e: jp L0002

0x0000000115813994: jbe L0002 ;\*dcmpl

; - jnt.scimark2.LU::factor@62 (line 184)

0x000000011581399a: vmovapd %xmm1,%xmm0 //t=ab

0x000000011581399e: mov %r11,%r13 ;\*iinc //jp=i

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

L0002: inc %r11d ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop off=228} // i++

;\*if\_icmplt

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

L0003: test %eax,-0xdc748aa(%rip) # 0x0000000107b9f100

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

0x00000001158139aa: cmp %edi,%r11d //i和M比较

0x00000001158139ad: jl L0001 ;\*if\_icmplt

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

0x00000001158139af: movslq %ecx,%rax //rax=j，多余

0x00000001158139b2: cmp 0xc(%rdx),%ecx ; implicit exception: dispatches to

0x0000000115813cd8

0x00000001158139b5: jae L0018

0x00000001158139bb: mov %r13d,0x10(%rdx,%rax,4) ;\*iastore //pivot[j]=jp

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

0x00000001158139c0: movslq %r13d,%rax //rax=jp，多余

0x00000001158139c3: cmp 0xc(%rsi),%r13d

0x00000001158139c7: jae L0019

0x00000001158139cd: mov 0x10(%rsi,%rax,4),%eax //rax=A[jp]，aaload两行

0x00000001158139d1: shl $0x3,%rax ;\*aaload //rax=A[jp]

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

0x00000001158139d5: movslq %ecx,%r11 //r11=j多余，（这里舍弃i了，不用用到）

0x00000001158139d8: cmp 0xc(%rax),%ecx ; implicit exception: dispatches to 0x0000000115813cf4

0x00000001158139db: jae L001a

0x00000001158139e1: vmovsd 0x10(%rax,%r11,8),%xmm0 ;\*daload

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

//xmmo=A[jp][j]

0x00000001158139e8: vxorpd %xmm1,%xmm1,%xmm1 // xmm1=0

0x00000001158139ec: vucomisd %xmm1,%xmm0 /判断A[jp][j]==0

0x00000001158139f0: jp L0004

0x00000001158139f6: je L0011 ;\*dcmpl

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

L0004: cmp %ecx,%r13d //判断jp！=j

0x00000001158139ff: je L0007 ;\*if\_icmpeq

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

0x0000000115813a05: movslq %ecx,%r11 //r11=j

0x0000000115813a08: lea 0x10(%rsi,%r11,4),%r11 //r11=A[j]

0x0000000115813a0d: cmp 0xc(%rsi),%ecx //

0x0000000115813a10: jae L001b

0x0000000115813a16: cmp $0x0,%rax //判断A[jp]是否合格

0x0000000115813a1a: je L0005

0x0000000115813a20: mov 0x8(%rsi),%r14d ; implicit exception: dispatches to

0x0000000115813d10

0x0000000115813a24: shl $0x3,%r14 //

0x0000000115813a28: mov 0x8(%rax),%edx

0x0000000115813a2b: shl $0x3,%rdx

0x0000000115813a2f: mov 0xe8(%r14),%r14

0x0000000115813a36: cmp %r14,%rdx

0x0000000115813a39: je L0005

0x0000000115813a3f: mov 0xc(%r14),%ebx

0x0000000115813a43: cmp (%rdx,%rbx,1),%r14

0x0000000115813a47: je L0005

0x0000000115813a4d: cmp $0x18,%ebx

0x0000000115813a50: jne L001c

0x0000000115813a56: push %rdx

0x0000000115813a57: push %r14

0x0000000115813a59: callq 0x00000001156878a0 ; {runtime\_call}

0x0000000115813a5e: pop %rdx

0x0000000115813a5f: pop %r14

0x0000000115813a61: cmp $0x0,%r14d

0x0000000115813a65: je L001c

L0005: mov %rax,%r10

0x0000000115813a6e: shr $0x3,%r10

0x0000000115813a72: mov %r10d,(%r11)

0x0000000115813a75: shr $0x9,%r11

0x0000000115813a79: movabs $0x10717e000,%rax

0x0000000115813a83: movb $0x0,(%r11,%rax,1) ;\*aastore

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

0x0000000115813a88: movslq %r13d,%rbx

0x0000000115813a8b: lea 0x10(%rsi,%rbx,4),%rbx

0x0000000115813a90: cmp 0xc(%rsi),%r13d

0x0000000115813a94: jae L001d

0x0000000115813a9a: cmp $0x0,%r8

0x0000000115813a9e: je L0006

0x0000000115813aa4: mov 0x8(%rsi),%edx ; implicit exception: dispatches to 0x0000000115813d27

0x0000000115813aa7: shl $0x3,%rdx

0x0000000115813aab: mov 0x8(%r8),%r11d

0x0000000115813aaf: shl $0x3,%r11

0x0000000115813ab3: mov 0xe8(%rdx),%rdx

0x0000000115813aba: cmp %rdx,%r11

0x0000000115813abd: je L0006

0x0000000115813ac3: mov 0xc(%rdx),%r13d

0x0000000115813ac7: cmp (%r11,%r13,1),%rdx

0x0000000115813acb: je L0006

0x0000000115813ad1: cmp $0x18,%r13d

0x0000000115813ad5: jne L001e

0x0000000115813adb: push %r11

0x0000000115813add: push %rdx

0x0000000115813ade: callq 0x00000001156878a0 ; {runtime\_call}

0x0000000115813ae3: pop %r11

0x0000000115813ae5: pop %rdx

0x0000000115813ae6: cmp $0x0,%edx

0x0000000115813ae9: je L001e

L0006: mov %r8,%r10

0x0000000115813af2: shr $0x3,%r10

0x0000000115813af6: mov %r10d,(%rbx)

0x0000000115813af9: shr $0x9,%rbx

0x0000000115813afd: movb $0x0,(%rbx,%rax,1) ;\*aastore

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

L0007: mov %rdi,%rax

0x0000000115813b04: dec %eax

0x0000000115813b06: cmp %eax,%ecx

0x0000000115813b08: jge L000a ;\*if\_icmpge

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

0x0000000115813b0e: movslq %ecx,%rax

0x0000000115813b11: cmp 0xc(%rsi),%ecx

0x0000000115813b14: jae L001f

0x0000000115813b1a: mov 0x10(%rsi,%rax,4),%eax

0x0000000115813b1e: shl $0x3,%rax ;\*aaload

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

0x0000000115813b22: movslq %ecx,%rbx

0x0000000115813b25: cmp 0xc(%rax),%ecx ; implicit exception: dispatches to 0x0000000115813d3e

0x0000000115813b28: jae L0020

0x0000000115813b2e: vmovsd 0x10(%rax,%rbx,8),%xmm0 ;\*daload

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

0x0000000115813b34: vmovsd -0x29c(%rip),%xmm1 # 0x00000001158138a0

; {section\_word}

0x0000000115813b3c: vdivsd %xmm0,%xmm1,%xmm1

0x0000000115813b40: mov %r9,%rax

0x0000000115813b43: jmpq L0009 ;\*goto

; - jnt.scimark2.LU::factor@155 (line 215)

L0008: movslq %eax,%rbx

0x0000000115813b4b: cmp 0xc(%rsi),%eax

0x0000000115813b4e: jae L0021

0x0000000115813b54: mov 0x10(%rsi,%rbx,4),%ebx

0x0000000115813b58: shl $0x3,%rbx ;\*aaload

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

0x0000000115813b5c: movslq %ecx,%rdx

0x0000000115813b5f: cmp 0xc(%rbx),%ecx ; implicit exception: dispatches to 0x0000000115813d5a

0x0000000115813b62: jae L0022

0x0000000115813b68: vmovsd 0x10(%rbx,%rdx,8),%xmm0 ;\*daload

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

0x0000000115813b6e: vmulsd %xmm1,%xmm0,%xmm0

0x0000000115813b72: movslq %ecx,%rdx

0x0000000115813b75: vmovsd %xmm0,0x10(%rbx,%rdx,8) ;\*dastore

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

0x0000000115813b7b: inc %eax ; OopMap{rsi=Oop [104]=Oop off=701}

;\*if\_icmplt

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

L0009: test %eax,-0xdc74a83(%rip) # 0x0000000107b9f100

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

0x0000000115813b83: cmp %edi,%eax

0x0000000115813b85: jl L0008 ;\*if\_icmplt

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

L000a: mov 0x64(%rsp),%ebx

0x0000000115813b8b: dec %ebx

0x0000000115813b8d: cmp %ebx,%ecx

0x0000000115813b8f: jl L000b ;\*if\_icmpge

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

0x0000000115813b95: mov 0x60(%rsp),%ebx

0x0000000115813b99: jmpq L0010 ;\*iinc

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

L000b: mov %r9,%rax

0x0000000115813ba1: mov 0x60(%rsp),%ebx

0x0000000115813ba5: jmpq L000f ;\*goto

; - jnt.scimark2.LU::factor@194 (line 229)

0x0000000115813baa: nopw 0x0(%rax,%rax,1)

L000c: movslq %eax,%rdx

0x0000000115813bb3: cmp 0xc(%rsi),%eax

0x0000000115813bb6: jae L0023

0x0000000115813bbc: mov 0x10(%rsi,%rdx,4),%edx

0x0000000115813bc0: shl $0x3,%rdx ;\*aaload

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

0x0000000115813bc4: movslq %ecx,%r8

0x0000000115813bc7: cmp 0xc(%rsi),%ecx

0x0000000115813bca: jae L0024

0x0000000115813bd0: mov 0x10(%rsi,%r8,4),%r8d

0x0000000115813bd5: shl $0x3,%r8 ;\*aaload

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

0x0000000115813bd9: movslq %ecx,%r11

0x0000000115813bdc: cmp 0xc(%rdx),%ecx ; implicit exception: dispatches to 0x0000000115813d7f

0x0000000115813bdf: jae L0025

0x0000000115813be5: vmovsd 0x10(%rdx,%r11,8),%xmm0 ;\*daload

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

0x0000000115813bec: mov %r9,%r11

0x0000000115813bef: jmpq L000e ;\*goto

; - jnt.scimark2.LU::factor@222 (line 234)

0x0000000115813bf4: nopl 0x0(%rax)

L000d: movslq %r11d,%r13

0x0000000115813bfb: cmp 0xc(%rdx),%r11d

0x0000000115813bff: jae L0026

0x0000000115813c05: vmovsd 0x10(%rdx,%r13,8),%xmm1 ;\*daload

; - jnt.scimark2.LU::factor@230 (line 235)

0x0000000115813c0c: movslq %r11d,%r13

0x0000000115813c0f: cmp 0xc(%r8),%r11d ; implicit exception: dispatches to 0x0000000115813d9b

0x0000000115813c13: jae L0027

0x0000000115813c19: vmovsd 0x10(%r8,%r13,8),%xmm2 ;\*daload

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

0x0000000115813c20: vmulsd %xmm0,%xmm2,%xmm2

0x0000000115813c24: vsubsd %xmm2,%xmm1,%xmm1

0x0000000115813c28: movslq %r11d,%r13

0x0000000115813c2b: vmovsd %xmm1,0x10(%rdx,%r13,8) ;\*dastore

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

0x0000000115813c32: inc %r11d ; OopMap{rsi=Oop [104]=Oop rdx=Oop r8=Oop off=885}

;\*if\_icmplt

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

L000e: test %eax,-0xdc74b3b(%rip) # 0x0000000107b9f100

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

0x0000000115813c3b: cmp %ebx,%r11d

0x0000000115813c3e: jl L000d ;\*if\_icmplt

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

0x0000000115813c40: inc %eax ; OopMap{rsi=Oop [104]=Oop off=898}

;\*if\_icmplt

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

L000f: test %eax,-0xdc74b48(%rip) # 0x0000000107b9f100

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

0x0000000115813c48: cmp %edi,%eax

0x0000000115813c4a: jl L000c ;\*if\_icmplt

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

L0010: mov %r9,%rcx

0x0000000115813c53: mov 0x68(%rsp),%rdx

0x0000000115813c58: mov 0x64(%rsp),%ebx

0x0000000115813c5c: jmpq L0000 ;\*iload

; - jnt.scimark2.LU::factor@262 (line 174)

L0011: mov $0x1,%eax

0x0000000115813c66: add $0x80,%rsp

0x0000000115813c6d: pop %rbp

0x0000000115813c6e: test %eax,-0xdc74b74(%rip) # 0x0000000107b9f100

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

0x0000000115813c74: retq ;\*ireturn

; - jnt.scimark2.LU::factor@102 (line 197)

L0012: mov $0x0,%eax

0x0000000115813c7a: add $0x80,%rsp

0x0000000115813c81: pop %rbp

0x0000000115813c82: test %eax,-0xdc74b88(%rip) # 0x0000000107b9f100

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

0x0000000115813c88: retq

0x0000000115813c89: callq 0x0000000115685240 ; OopMap{rsi=Oop rdx=Oop [104]=Oop off=974}

;\*arraylength

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

; {runtime\_call}

L0013: movq $0x0,(%rsp)

0x0000000115813c96: callq 0x00000001155f7800 ; OopMap{rsi=Oop rdx=Oop [104]=Oop off=987}

;\*aaload

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

; {runtime\_call}

0x0000000115813c9b: callq 0x0000000115685240 ; OopMap{rsi=Oop rdx=Oop [104]=Oop off=992}

;\*arraylength

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

; {runtime\_call}

L0014: mov %rcx,(%rsp)

0x0000000115813ca4: callq 0x00000001155f7800 ; OopMap{rsi=Oop rdx=Oop [104]=Oop off=1001}

;\*aaload

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

; {runtime\_call}

0x0000000115813ca9: callq 0x0000000115685240 ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop off=1006}

;\*daload

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

; {runtime\_call}

0x0000000115813cae: callq 0x0000000115685240 ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop off=1011}

;\*daload

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

; {runtime\_call}

L0015: mov %rcx,(%rsp)

0x0000000115813cb7: callq 0x00000001155f7800 ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop off=1020}

;\*daload

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

; {runtime\_call}

L0016: mov %r11,(%rsp)

0x0000000115813cc0: callq 0x00000001155f7800 ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop off=1029}

;\*aaload

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

; {runtime\_call}

0x0000000115813cc5: callq 0x0000000115685240 ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop r14=Oop off=1034}

;\*daload

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

; {runtime\_call}

0x0000000115813cca: callq 0x0000000115685240 ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop r14=Oop off=1039}

;\*daload

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

; {runtime\_call}

L0017: mov %rcx,(%rsp)

0x0000000115813cd3: callq 0x00000001155f7800 ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop r14=Oop off=1048}

;\*daload

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

; {runtime\_call}

0x0000000115813cd8: callq 0x0000000115685240 ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop off=1053}

;\*iastore

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

; {runtime\_call}

0x0000000115813cdd: callq 0x0000000115685240 ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop off=1058}

;\*iastore

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

; {runtime\_call}

L0018: mov %rcx,(%rsp)

0x0000000115813ce6: callq 0x00000001155f7800 ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop off=1067}

;\*iastore

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

; {runtime\_call}

L0019: mov %r13,(%rsp)

0x0000000115813cef: callq 0x00000001155f7800 ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop off=1076}

;\*aaload

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

; {runtime\_call}

0x0000000115813cf4: callq 0x0000000115685240 ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop rax=Oop off=1081}

;\*daload

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

; {runtime\_call}

0x0000000115813cf9: callq 0x0000000115685240 ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop rax=Oop off=1086}

;\*daload

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

; {runtime\_call}

L001a: mov %rcx,(%rsp)

0x0000000115813d02: callq 0x00000001155f7800 ; OopMap{rsi=Oop rdx=Oop [104]=Oop r8=Oop rax=Oop off=1095}

;\*daload

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

; {runtime\_call}

L001b: mov %rcx,(%rsp)

0x0000000115813d0b: callq 0x00000001155f7800 ; OopMap{rsi=Oop [104]=Oop rax=Oop r8=Oop off=1104}

;\*aastore

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

; {runtime\_call}

0x0000000115813d10: callq 0x0000000115685240 ; OopMap{rsi=Oop [104]=Oop rax=Oop r8=Oop off=1109}

;\*aastore

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

; {runtime\_call}

L001c: mov %rax,(%rsp)

0x0000000115813d19: callq 0x0000000115687200 ; OopMap{rsi=Oop [104]=Oop rax=Oop r8=Oop off=1118}

;\*aastore

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

; {runtime\_call}

L001d: mov %r13,(%rsp)

0x0000000115813d22: callq 0x00000001155f7800 ; OopMap{rsi=Oop [104]=Oop r8=Oop off=1127}

;\*aastore

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

; {runtime\_call}

0x0000000115813d27: callq 0x0000000115685240 ; OopMap{rsi=Oop [104]=Oop r8=Oop off=1132}

;\*aastore

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

; {runtime\_call}

L001e: mov %r8,(%rsp)

0x0000000115813d30: callq 0x0000000115687200 ; OopMap{rsi=Oop [104]=Oop r8=Oop off=1141}

;\*aastore

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

; {runtime\_call}

L001f: mov %rcx,(%rsp)

0x0000000115813d39: callq 0x00000001155f7800 ; OopMap{rsi=Oop [104]=Oop off=1150}

;\*aaload

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

; {runtime\_call}

0x0000000115813d3e: callq 0x0000000115685240 ; OopMap{rsi=Oop [104]=Oop rax=Oop off=1155}

;\*daload

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

; {runtime\_call}

0x0000000115813d43: callq 0x0000000115685240 ; OopMap{rsi=Oop [104]=Oop rax=Oop off=1160}

;\*daload

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

; {runtime\_call}

L0020: mov %rcx,(%rsp)

0x0000000115813d4c: callq 0x00000001155f7800 ; OopMap{rsi=Oop [104]=Oop rax=Oop off=1169}

;\*daload

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

; {runtime\_call}

L0021: mov %rax,(%rsp)

0x0000000115813d55: callq 0x00000001155f7800 ; OopMap{rsi=Oop [104]=Oop off=1178}

;\*aaload

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

; {runtime\_call}

0x0000000115813d5a: callq 0x0000000115685240 ; OopMap{rsi=Oop [104]=Oop rbx=Oop off=1183}

;\*daload

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

; {runtime\_call}

0x0000000115813d5f: callq 0x0000000115685240 ; OopMap{rsi=Oop [104]=Oop rbx=Oop off=1188}

;\*daload

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

; {runtime\_call}

L0022: mov %rcx,(%rsp)

0x0000000115813d68: callq 0x00000001155f7800 ; OopMap{rsi=Oop [104]=Oop rbx=Oop off=1197}

;\*daload

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

; {runtime\_call}

L0023: mov %rax,(%rsp)

0x0000000115813d71: callq 0x00000001155f7800 ; OopMap{rsi=Oop [104]=Oop off=1206}

;\*aaload

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

; {runtime\_call}

L0024: mov %rcx,(%rsp)

0x0000000115813d7a: callq 0x00000001155f7800 ; OopMap{rsi=Oop [104]=Oop rdx=Oop off=1215}

;\*aaload

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

; {runtime\_call}

0x0000000115813d7f: callq 0x0000000115685240 ; OopMap{rsi=Oop [104]=Oop rdx=Oop r8=Oop off=1220}

;\*daload

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

; {runtime\_call}

0x0000000115813d84: callq 0x0000000115685240 ; OopMap{rsi=Oop [104]=Oop rdx=Oop r8=Oop off=1225}

;\*daload

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

; {runtime\_call}

L0025: mov %rcx,(%rsp)

0x0000000115813d8d: callq 0x00000001155f7800 ; OopMap{rsi=Oop [104]=Oop rdx=Oop r8=Oop off=1234}

;\*daload

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

; {runtime\_call}

L0026: mov %r11,(%rsp)

0x0000000115813d96: callq 0x00000001155f7800 ; OopMap{rsi=Oop [104]=Oop rdx=Oop r8=Oop off=1243}

;\*daload

; - jnt.scimark2.LU::factor@230 (line 235)

; {runtime\_call}

0x0000000115813d9b: callq 0x0000000115685240 ; OopMap{rsi=Oop [104]=Oop rdx=Oop r8=Oop off=1248}

;\*daload

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

; {runtime\_call}

0x0000000115813da0: callq 0x0000000115685240 ; OopMap{rsi=Oop [104]=Oop rdx=Oop r8=Oop off=1253}

;\*daload

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

; {runtime\_call}

L0027: mov %r11,(%rsp)

0x0000000115813da9: callq 0x00000001155f7800 ; OopMap{rsi=Oop [104]=Oop rdx=Oop r8=Oop off=1262}

;\*daload

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

; {runtime\_call}

0x0000000115813dae: nop

0x0000000115813daf: nop

0x0000000115813db0: mov 0x2a8(%r15),%rax

0x0000000115813db7: movabs $0x0,%r10

0x0000000115813dc1: mov %r10,0x2a8(%r15)

0x0000000115813dc8: movabs $0x0,%r10

0x0000000115813dd2: mov %r10,0x2b0(%r15)

0x0000000115813dd9: add $0x80,%rsp

0x0000000115813de0: pop %rbp

0x0000000115813de1: jmpq 0x00000001155f7ca0 ; {runtime\_call}

0x0000000115813de6: hlt

0x0000000115813de7: hlt

0x0000000115813de8: hlt

0x0000000115813de9: hlt

0x0000000115813dea: hlt

0x0000000115813deb: hlt

0x0000000115813dec: hlt

0x0000000115813ded: hlt

0x0000000115813dee: hlt

0x0000000115813def: hlt

0x0000000115813df0: hlt

0x0000000115813df1: hlt

0x0000000115813df2: hlt

0x0000000115813df3: hlt

0x0000000115813df4: hlt

0x0000000115813df5: hlt

0x0000000115813df6: hlt

0x0000000115813df7: hlt

0x0000000115813df8: hlt

0x0000000115813df9: hlt

0x0000000115813dfa: hlt

0x0000000115813dfb: hlt

0x0000000115813dfc: hlt

0x0000000115813dfd: hlt

0x0000000115813dfe: hlt

0x0000000115813dff: hlt

[Exception Handler]

[Stub Code]

0x0000000115813e00: callq 0x00000001156870e0 ; {no\_reloc}

0x0000000115813e05: mov %rsp,-0x28(%rsp)

0x0000000115813e0a: sub $0x80,%rsp

0x0000000115813e11: mov %rax,0x78(%rsp)

0x0000000115813e16: mov %rcx,0x70(%rsp)

0x0000000115813e1b: mov %rdx,0x68(%rsp)

0x0000000115813e20: mov %rbx,0x60(%rsp)

0x0000000115813e25: mov %rbp,0x50(%rsp)

0x0000000115813e2a: mov %rsi,0x48(%rsp)

0x0000000115813e2f: mov %rdi,0x40(%rsp)

0x0000000115813e34: mov %r8,0x38(%rsp)

0x0000000115813e39: mov %r9,0x30(%rsp)

0x0000000115813e3e: mov %r10,0x28(%rsp)

0x0000000115813e43: mov %r11,0x20(%rsp)

0x0000000115813e48: mov %r12,0x18(%rsp)

0x0000000115813e4d: mov %r13,0x10(%rsp)

0x0000000115813e52: mov %r14,0x8(%rsp)

0x0000000115813e57: mov %r15,(%rsp)

0x0000000115813e5b: movabs $0x1099e391c,%rdi ; {external\_word}

0x0000000115813e65: movabs $0x115813e05,%rsi ; {internal\_word}

0x0000000115813e6f: mov %rsp,%rdx

0x0000000115813e72: and $0xfffffffffffffff0,%rsp

0x0000000115813e76: callq 0x0000000109807a0e ; {runtime\_call}

0x0000000115813e7b: hlt

[Deopt Handler Code]

0x0000000115813e7c: movabs $0x115813e7c,%r10 ; {section\_word}

0x0000000115813e86: push %r10

0x0000000115813e88: jmpq 0x00000001155d1500 ; {runtime\_call}

0x0000000115813e8d: hlt

0x0000000115813e8e: hlt

0x0000000115813e8f: hlt