

```
push %rbp
push %r15
push %r14
push %r13
push %r12
push %rbx
movslq 0x28(%rdi),%r10
mov 0x68(%rdi),%rax
mov 0x70(%rdi),%rcx
mov (%rsi),%rbp
imul %rax,%rbp
add 0x38(%rdi),%rbp
mov 0x8(%rsi),%r13
imul %rcx,%rsi
add 0x40(%rdi),%rsi
movslq 0x24(%rdi),%rdx
add %rsi,%rcx
cmp %rdx,%rcx
mov %rdx,%r13
cmovle %rcx,%r13
test %rdx,%rdx
cmovs %rcx,%r13
add %rbp,%rcx
cmp %r10,%rax
mov %r10,%rcx
cmovle %rax,%rcx
test %r10,%r10
cmovs %rax,%rcx
mov %rbp,-0x68(%rsp)
sub %rbp,%rcx
mov %rcx,%rax
test %rcx,%rcx
jle 0x7ffff7fcb54d <fdtd_kernel1+909>
```

No Jump	Jump
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```
sub %rsi,%r13
test %r13,%r13
jle 0x7ffff7fcb54d <fdtd_kernel1+909>
```

No Jump	Jump
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```
mov %rsi,-0x50(%rsp)
mov (%rdi),%rcx
mov %rcx,-0x38(%rsp)
mov 0x10(%rdi),%rdx
mov 0x18(%rdi),%rcx
mov %rcx,-0x30(%rsp)
movslq 0x20(%rdi),%rcx
mov %rcx,-0x40(%rsp)
mov %rax,%rsi
sar $0x3,%rsi
mov %rax,%rcx
and $0xfffffffffff8,%rcx
mov %rcx,-0x28(%rsp)
sub %rcx,%rax
mov %rax,-0x48(%rsp)
mov %rsi,-0x10(%rsp)
test %rsi,%rsi
je 0x7ffff7fcb45b <fdtd_kernel1+667>
```

No Jump	Jump
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```
mov -0x50(%rsp),%rsi
lea -0x1(%rsi),%r12d
imul %r10d,%r12d
mov %esi,%ebp
imul %r10d,%ebp
mov -0x68(%rsp),%rcx
add %ecx,%r12d
add %ecx,%ebp
xor %edi,%edi
movabs $0x7ffff7fca000,%rcx
vmovdqa (%rcx),%ymm0
movabs $0x7ffff7fca020,%rcx
vmovdqa (%rcx),%ymm1
mov %rsi,%rcx
mov %r13,-0x18(%rsp)
mov %r10,-0x20(%rsp)
nopl (%rax)
```

```
mov %rdi,-0x8(%rsp)
mov -0x68(%rsp),%rsi
vmovq %rsi,%xmm2
vpbroadcastq %xmm2,%ymm2
vpsllq $0x20,%ymm2,%ymm3
vpaddq %ymm0,%ymm3,%ymm2
vpaddq %ymm1,%ymm3,%ymm3
vpextrq $0x1,%xmm3,%rsi
vmovq %xmm3,%rdi
sub %rdi,%rsi
shl $0x3,%rsi
vmovq %rsi,%xmm4
vpbroadcastq %xmm4,%ymm4
mov %ebp,-0x54(%rsp)
mov %ebp,%r13d
mov %r12d,-0x60(%rsp)
mov -0x10(%rsp),%r11
movabs $0x7ffff7fca040,%rax
nopl 0x0(%rax,%rax,1)
```

```
test %ecx,%ecx
je 0x7ffff7fcb390 <fdtd_kernel1+464>
```

No Jump	Jump
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```
movslq %r13d,%rsi
vcvtips2pd (%rdx,%rsi,4),%ymm5
vcvtips2pd 0x10(%rdx,%rsi,4),%ymm6
mov -0x30(%rsp),%rbp
vmovups 0x0(%rbp,%rsi,4),%ymm7
movslq %r12d,%rdi
vsubps 0x0(%rbp,%rdi,4),%ymm7,%ymm7
vcvtips2pd %xmm7,%ymm8
vextractf128 $0x1,%ymm7,%xmm7
vcvtips2pd %xmm7,%ymm7
vbroadcastsd (%rax),%ymm9
vfmadd213pd %ymm6,%ymm9,%ymm7
vfmadd213pd %ymm5,%ymm9,%ymm8
vcvtupd2ps %ymm8,%xmm5
vcvtupd2ps %ymm7,%xmm6
vinsertf128 $0x1,%xmm6,%ymm5,%ymm5
vmovupd %ymm5,(%rdx,%rsi,4)
jmp 0x7ffff7fcb412 <fdtd_kernel1+594>
```

No Jump	Jump
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```
nopl 0x0(%rax)
```

```
mov -0x38(%rsp),%rsi
mov -0x40(%rsp),%rdi
mov (%rsi,%rdi,4),%esi
vpsrad $0x1f,%ymm2,%ymm5
vpshufd $0xf5,%ymm2,%ymm6
vpblendd $0xaa,%ymm5,%ymm6,%ymm5
vpsrad $0x1f,%ymm3,%ymm6
vpshufd $0xf5,%ymm3,%ymm7
vpblendd $0xaa,%ymm6,%ymm7,%ymm6
vpextrq $0x1,%xmm6,%rdi
vmovq %xmm6,%r8
vextracti128 $0x1,%ymm6,%xmm6
vpextrq $0x1,%xmm6,%r15
vmovq %xmm6,%rbp
vmovq %xmm5,%rbx
vpextrq $0x1,%xmm5,%r9
vextracti128 $0x1,%ymm5,%xmm5
vmovq %xmm5,%r10
vpextrq $0x1,%xmm5,%r14
mov %esi,(%rdx,%r8,4)
mov %esi,(%rdx,%rdi,4)
mov %esi,(%rdx,%rbp,4)
mov %esi,(%rdx,%r15,4)
mov %esi,(%rdx,%rbx,4)
mov %esi,(%rdx,%r9,4)
mov %esi,(%rdx,%r10,4)
mov %esi,(%rdx,%r14,4)
```

```
vpaddq %ymm4,%ymm3,%ymm3
vpaddq %ymm4,%ymm2,%ymm2
add $0x8,%r12d
add $0x8,%r13d
add $0xffffffffffff,%r11
jne 0x7ffff7fcb330 <fdtd_kernel1+368>
```

No Jump	Jump
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```
mov -0x8(%rsp),%rdi
add $0x1,%rdi
add $0x1,%rcx
mov -0x20(%rsp),%r10
mov -0x60(%rsp),%r12d
add %r10d,%r12d
mov -0x54(%rsp),%ebp
add %r10d,%ebp
mov -0x18(%rsp),%r13
cmp %r13,%rdi
jne 0x7ffff7fcb2d0 <fdtd_kernel1+272>
```

No Jump	Jump
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```
cmpq $0x0,-0x48(%rsp)
mov -0x50(%rsp),%r14
je 0x7ffff7fcb54d <fdtd_kernel1+909>
```

No Jump	Jump
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```
mov -0x28(%rsp),%rax
add -0x68(%rsp),%rax
mov %rax,%rcx
shl $0x20,%rcx
mov %rcx,-0x60(%rsp)
lea -0x1(%r14),%r11d
imul %r10d,%r11d
add %eax,%r11d
mov %r14d,%r15d
imul %r10d,%r15d
add %eax,%r15d
xor %r12d,%r12d
movabs $0x100000000,%r9
movabs $0x7ffff7fca048,%rcx
vmovsd (%rcx),%xmm0
mov -0x30(%rsp),%r8
nopw 0x0(%rax,%rax,1)
```

```
mov %r15d,%ebx
mov %r11d,%ecx
mov -0x60(%rsp),%rax
mov -0x48(%rsp),%rdi
```

```
test %r14d,%r14d
je 0x7ffff7fcb510 <fdtd_kernel1+848>
```

No Jump	Jump
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```
movslq %ebx,%rsi
vmovss (%rdx,%rsi,4),%xmm1
vcvtss2sd %xmm1,%xmm1,%xmm1
vmovss (%r8,%rsi,4),%xmm2
movslq %ecx,%rbp
vsubss (%r8,%rbp,4),%xmm2,%xmm2
vcvtss2sd %xmm2,%xmm2,%xmm2
vfmadd132sd %xmm0,%xmm1,%xmm2
vcvtss2sd %xmm2,%xmm2,%xmm1
vmovd %xmm1,(%rdx,%rsi,4)
jmp 0x7ffff7fcb527 <fdtd_kernel1+871>
```

No Jump	Jump
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```
data16 data16 nopw %cs:0x0(%rax,%rax,1)
```

```
mov -0x38(%rsp),%rsi
mov -0x40(%rsp),%rbp
mov (%rsi,%rbp,4),%ebp
mov %rax,%rsi
sar $0x1e,%rsi
mov %ebp,(%rdx,%rsi,1)
```

```
add %r9,%rax
add $0x1,%ecx
add $0xffffffffffff,%rdi
jne 0x7ffff7fcb4d0 <fdtd_kernel1+784>
```

No Jump	Jump
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```
add $0x1,%r12
add $0x1,%r14
add %r10d,%r11d
add %r10d,%r15d
cmp %r13,%r12
jne 0x7ffff7fcb4c0 <fdtd_kernel1+768>
```

No Jump	Jump
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```
pop %rbx
pop %r12
pop %r13
pop %r14
pop %r15
pop %rbp
vzeroupper
ret
```