

Examples of program interruptions for ASSIST/I

- Invalid operation

```
BADOP CSECT
      USING *,15
      DC   F'0'
      BR   14
      END
$ENTRY
```

- Protection exception

```
BADADR CSECT
      USING *,15
      LA   1,1234
      SR   0,0
      ST   0,0(,1)
      BR   14
      END
$ENTRY
```

- Specification exception (operand address not divisible by 4)

```
BADADR2 CSECT
      USING *,15
      LA   1,1234
      ST   1,X+2
      BR   14
X      DC   2F'0'
      END
$ENTRY
```

- Specification exception (odd first-operand register)

```
BADREG CSECT
      USING *,15
      LA   3,5
      MR   3,3
      BR   14
      END
$ENTRY
```

- Fixed-point divide exception

```
DIV CSECT
      USING *,15
      L    2,=F'12345'
      SR   3,3
      D    2,=F'3'
      BR   14
      LTORG
      END
$ENTRY
```

- Run off the end of the program

```
RUNAWAY CSECT
      USING *,15
      SR   0,0
      END
$ENTRY
```