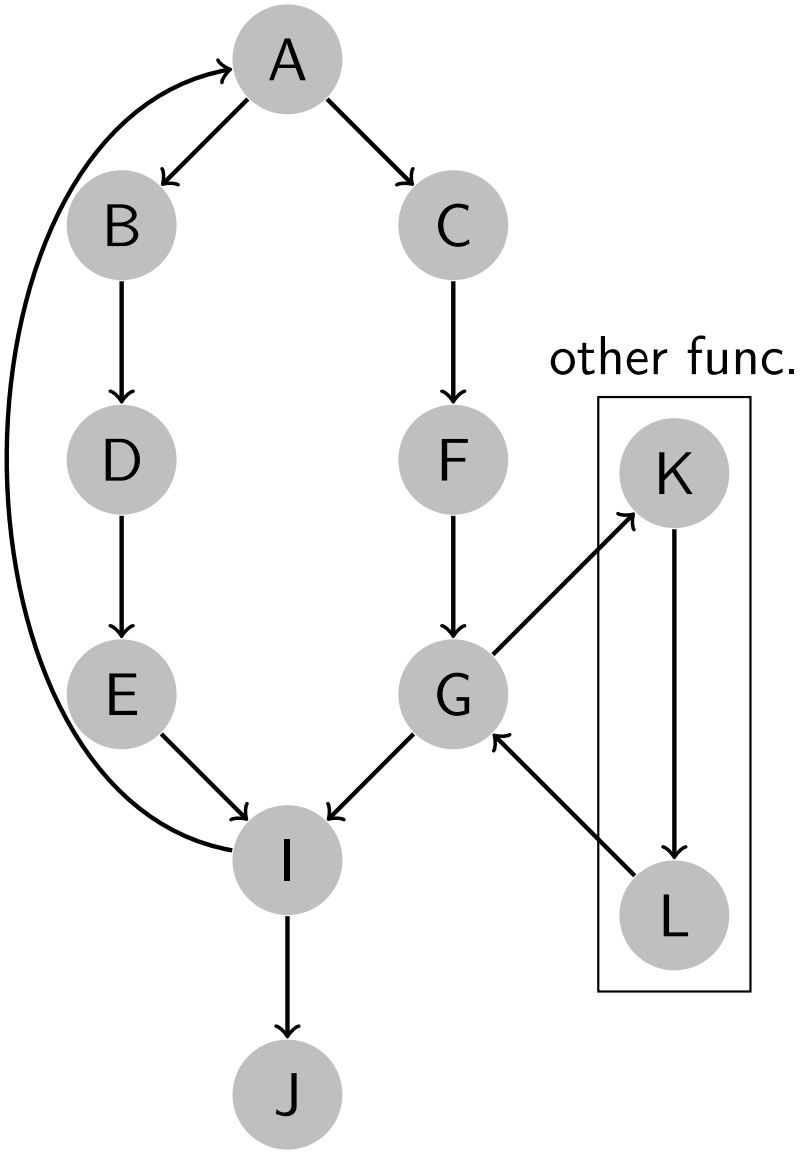
Meta-hybrid JIT approach to Path Divergence Problem

Anonymous

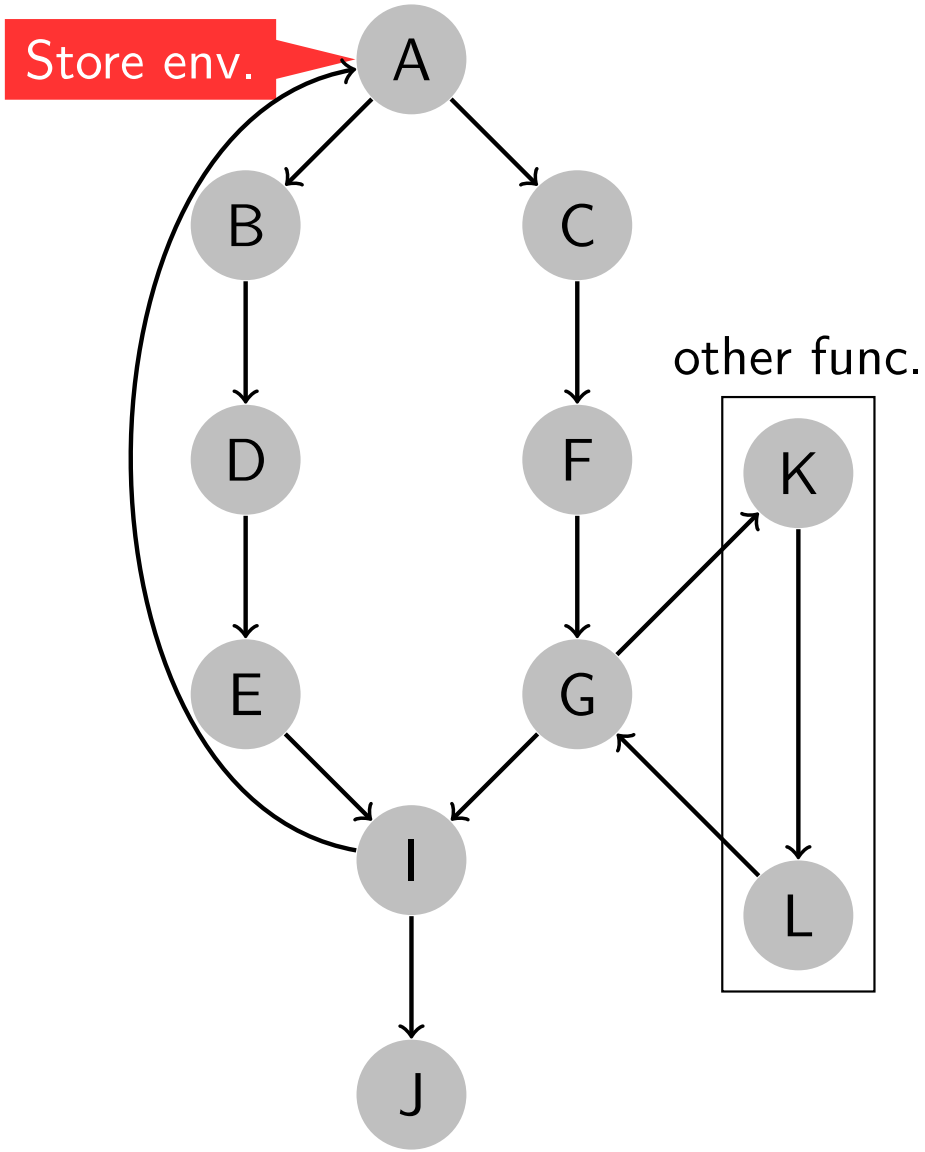
Tokyo Institute of Technology

2019

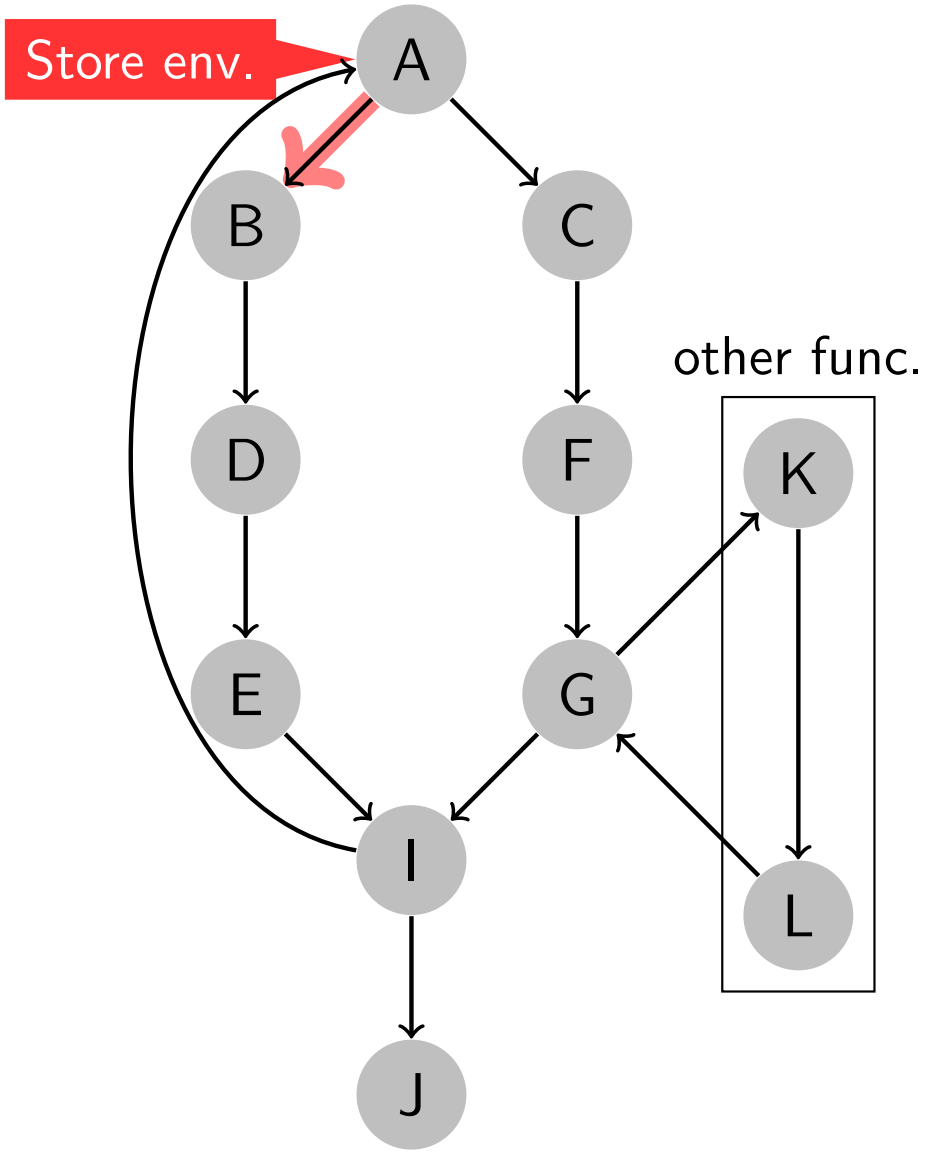
Slide 1



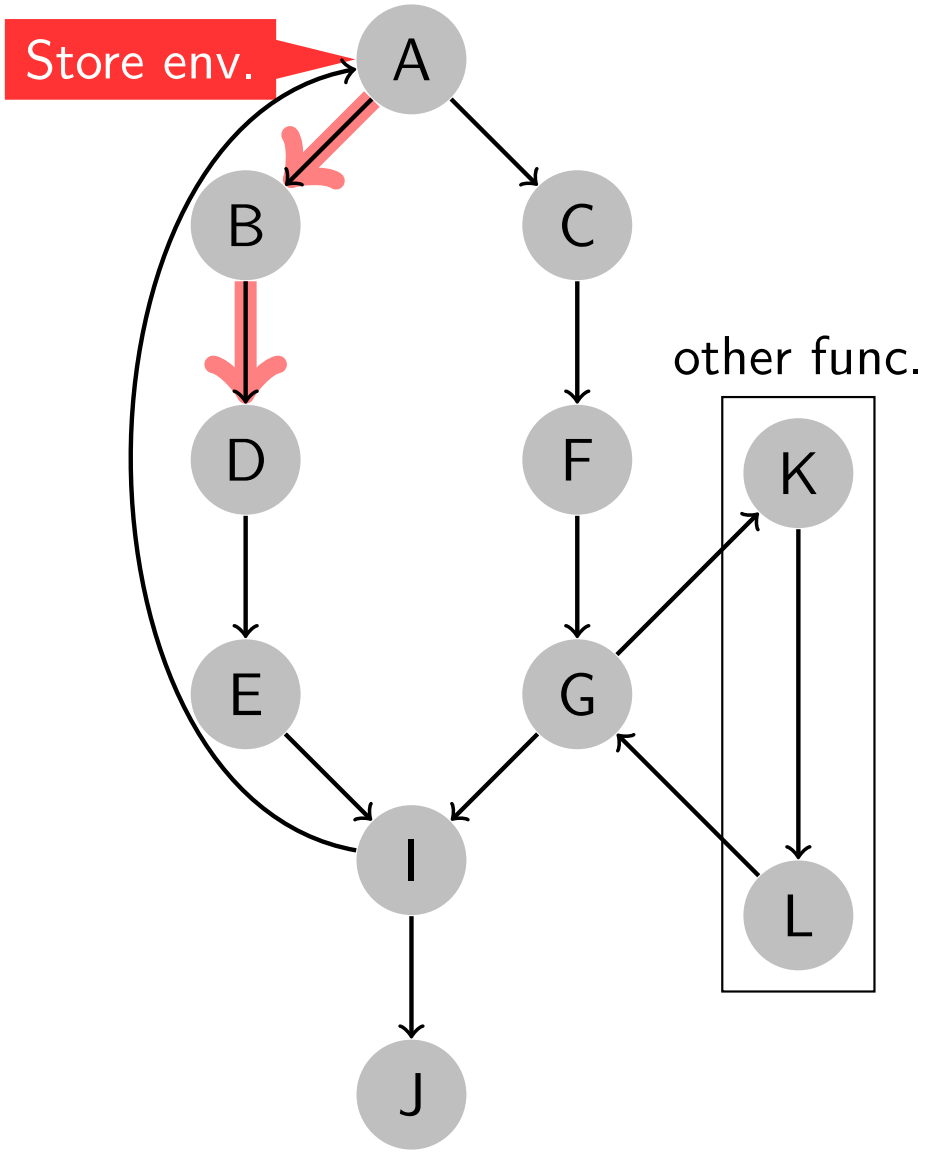
Slide 1



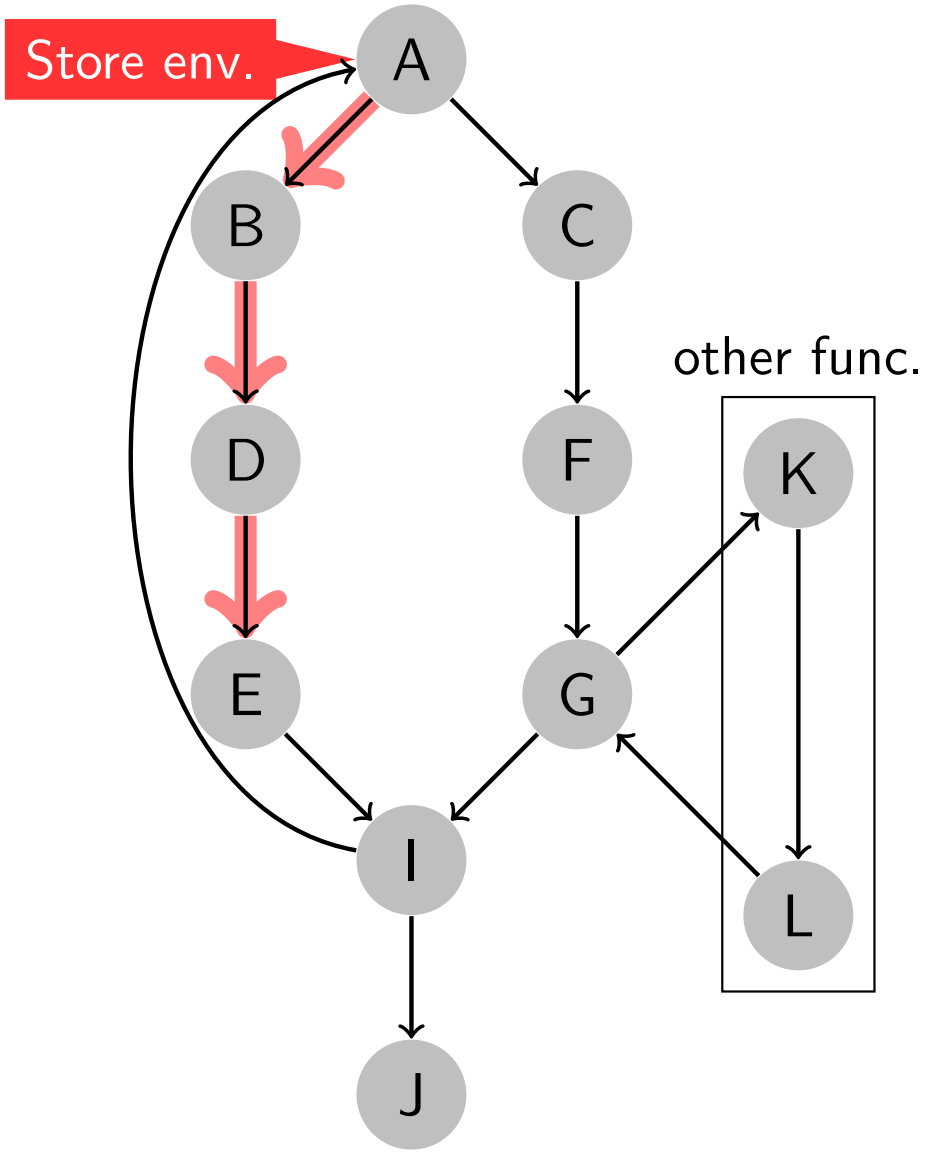
Slide 1



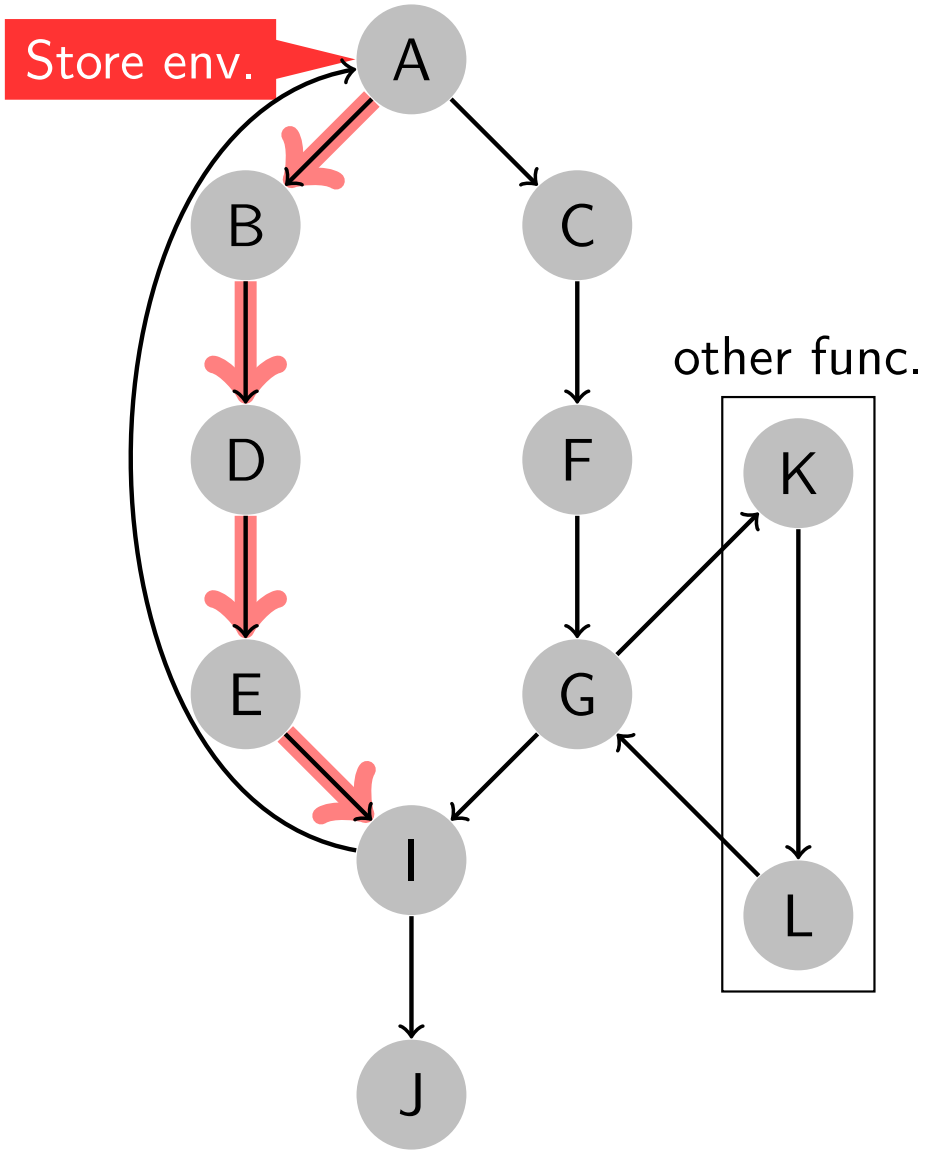
Slide 1



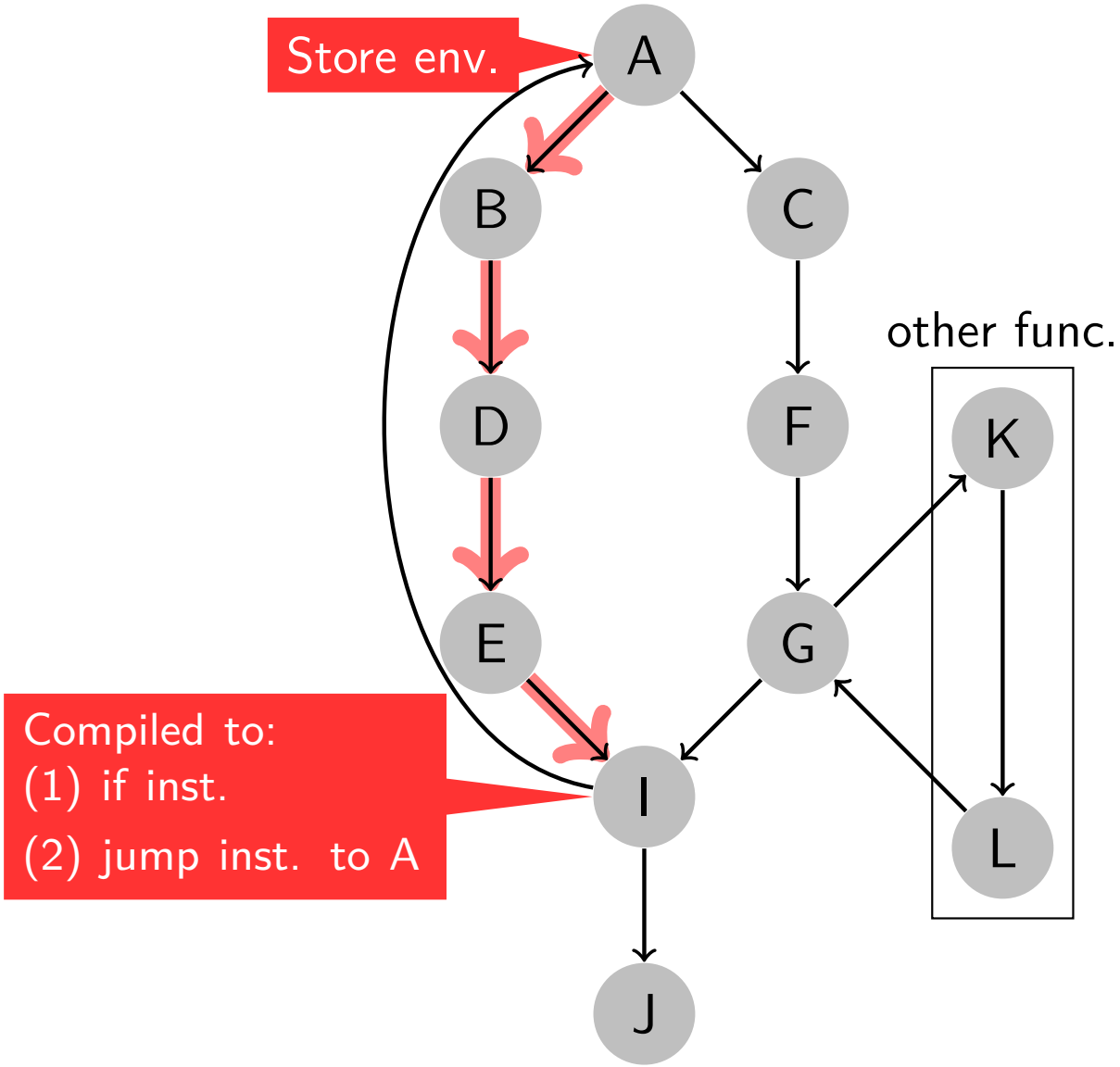
Slide 1



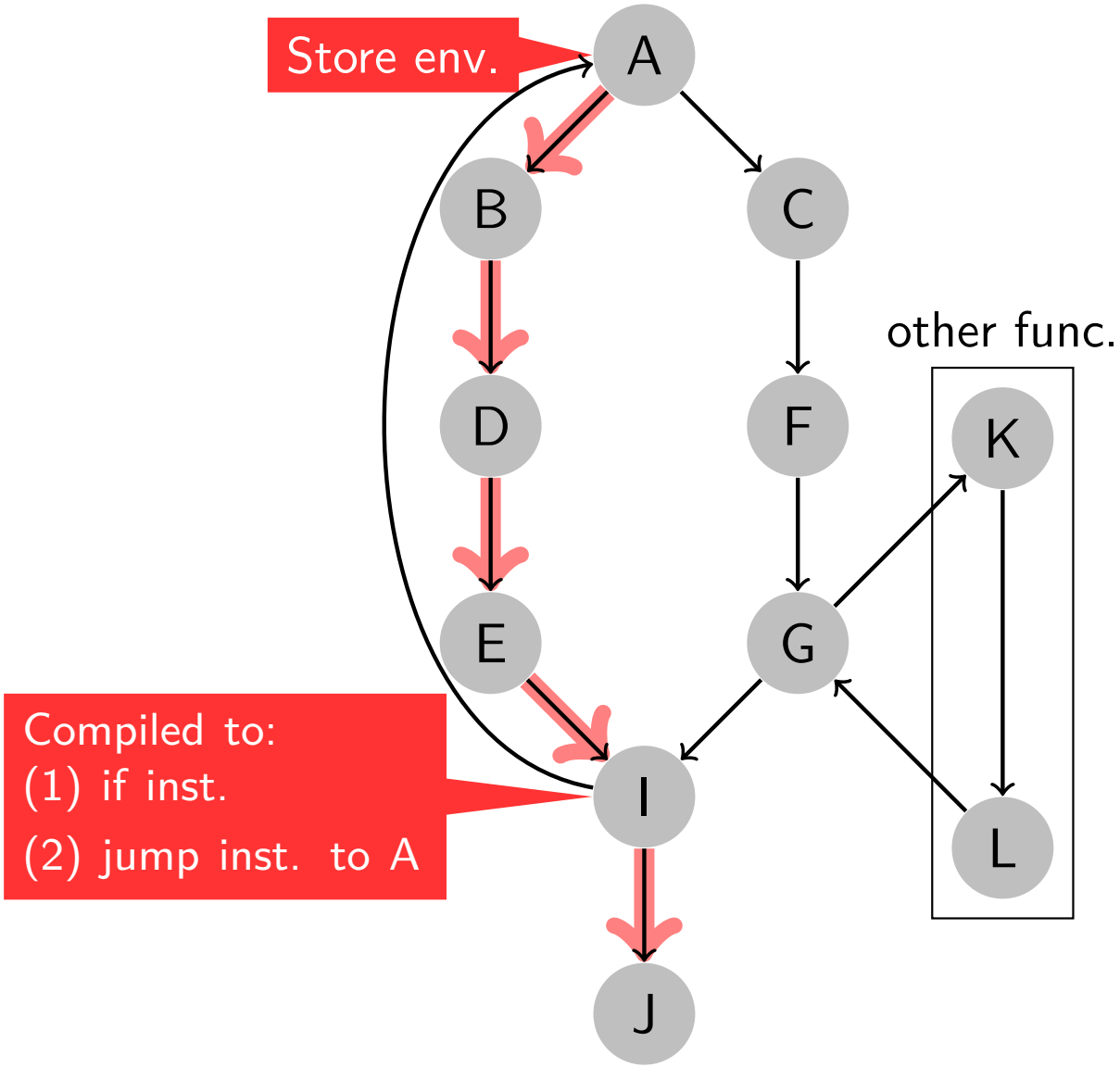
Slide 1



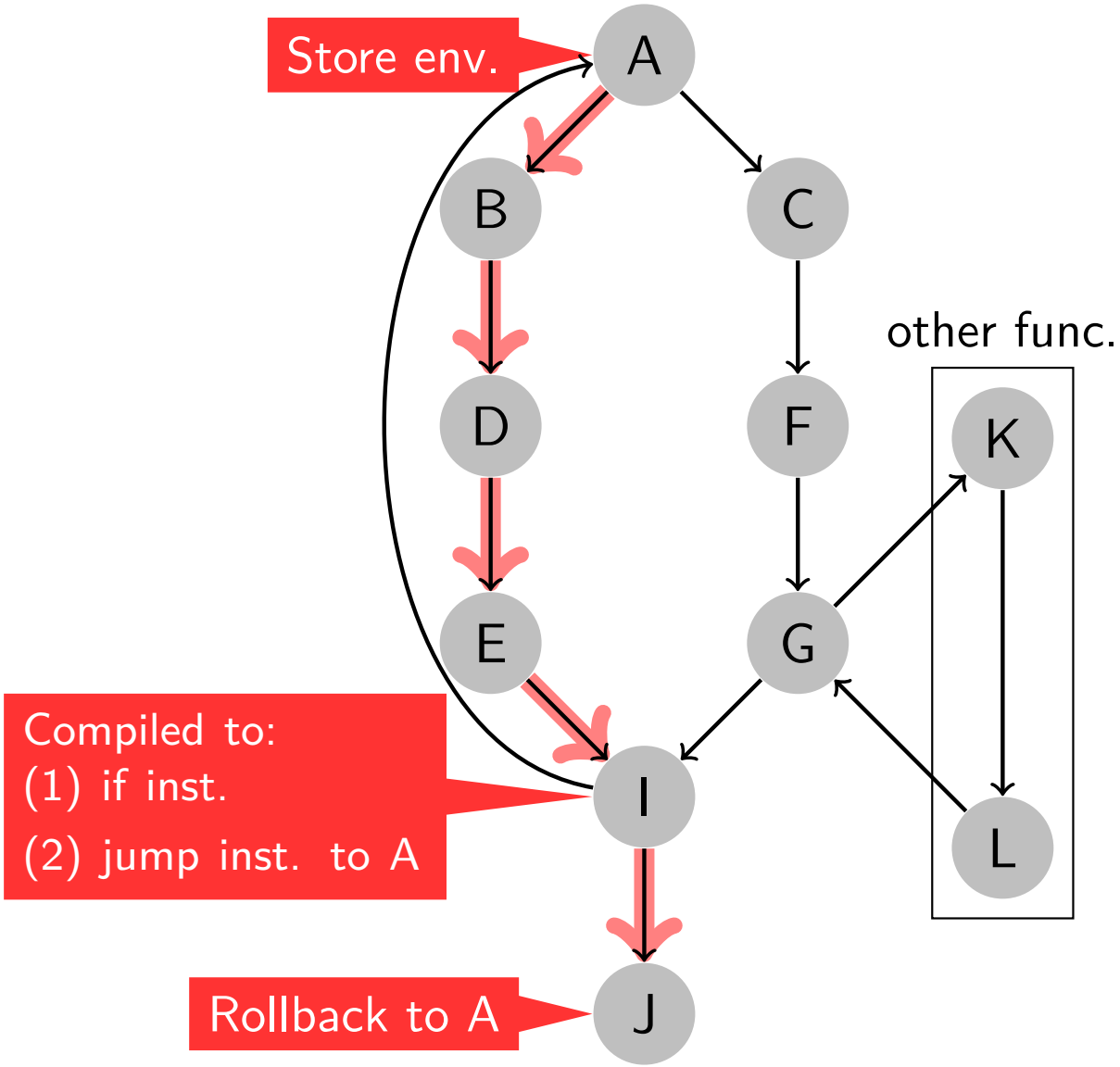
Slide 1


Store env.
A
B
C
D
F
E
G
I
J
other func.
K
L
Compiled to:
(1) if inst.
(2) jump inst. to A

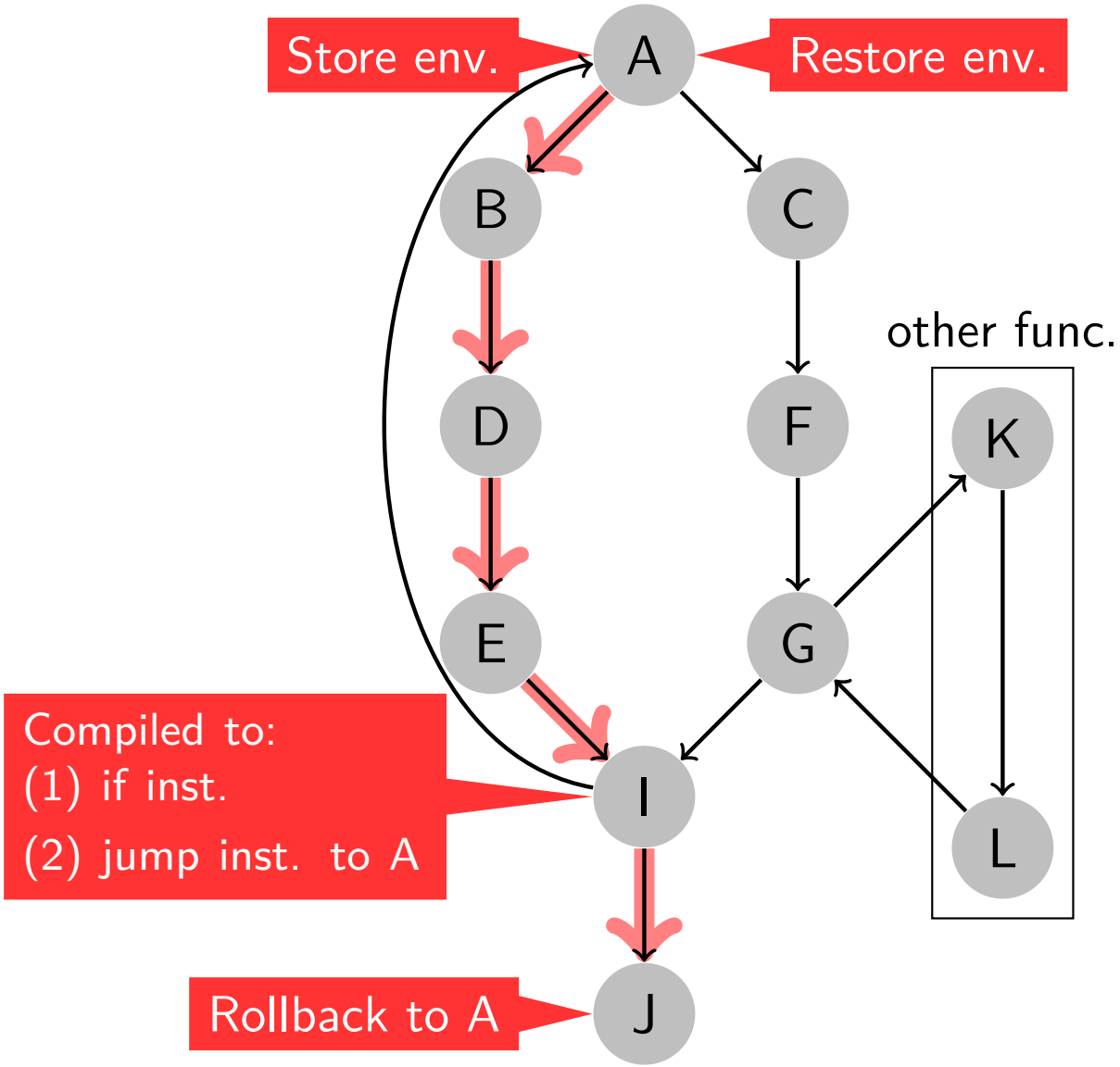
Slide 1


Store env.
A
B
C
D
F
E
G
I
J
other func.
K
L
Compiled to:
(1) if inst.
(2) jump inst. to A

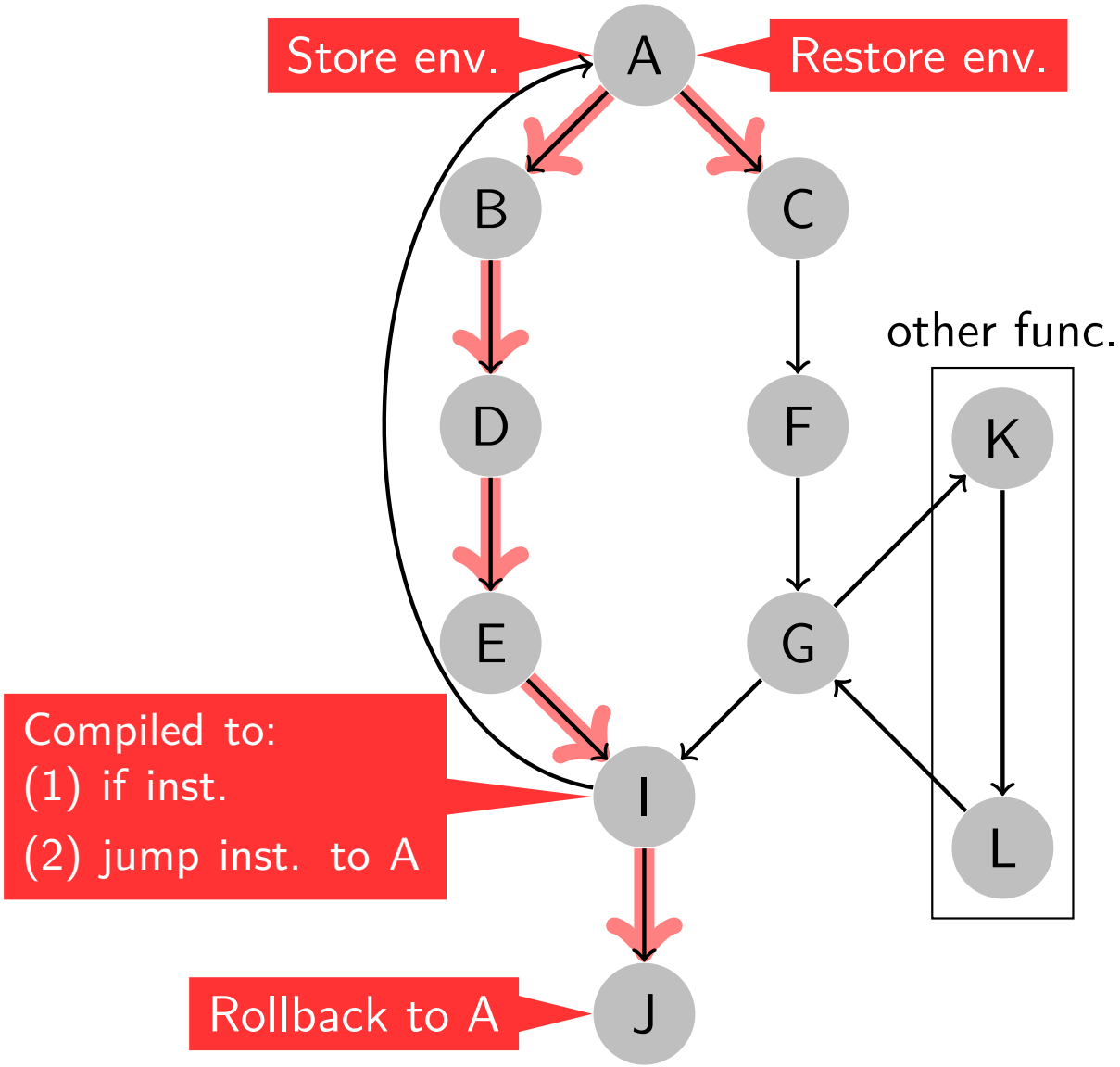
Slide 1


Store env.
A
B
C
other func.
D
F
K
E
G
Compiled to:
(1) if inst.
(2) jump inst. to A
I
L
Rollback to A
J

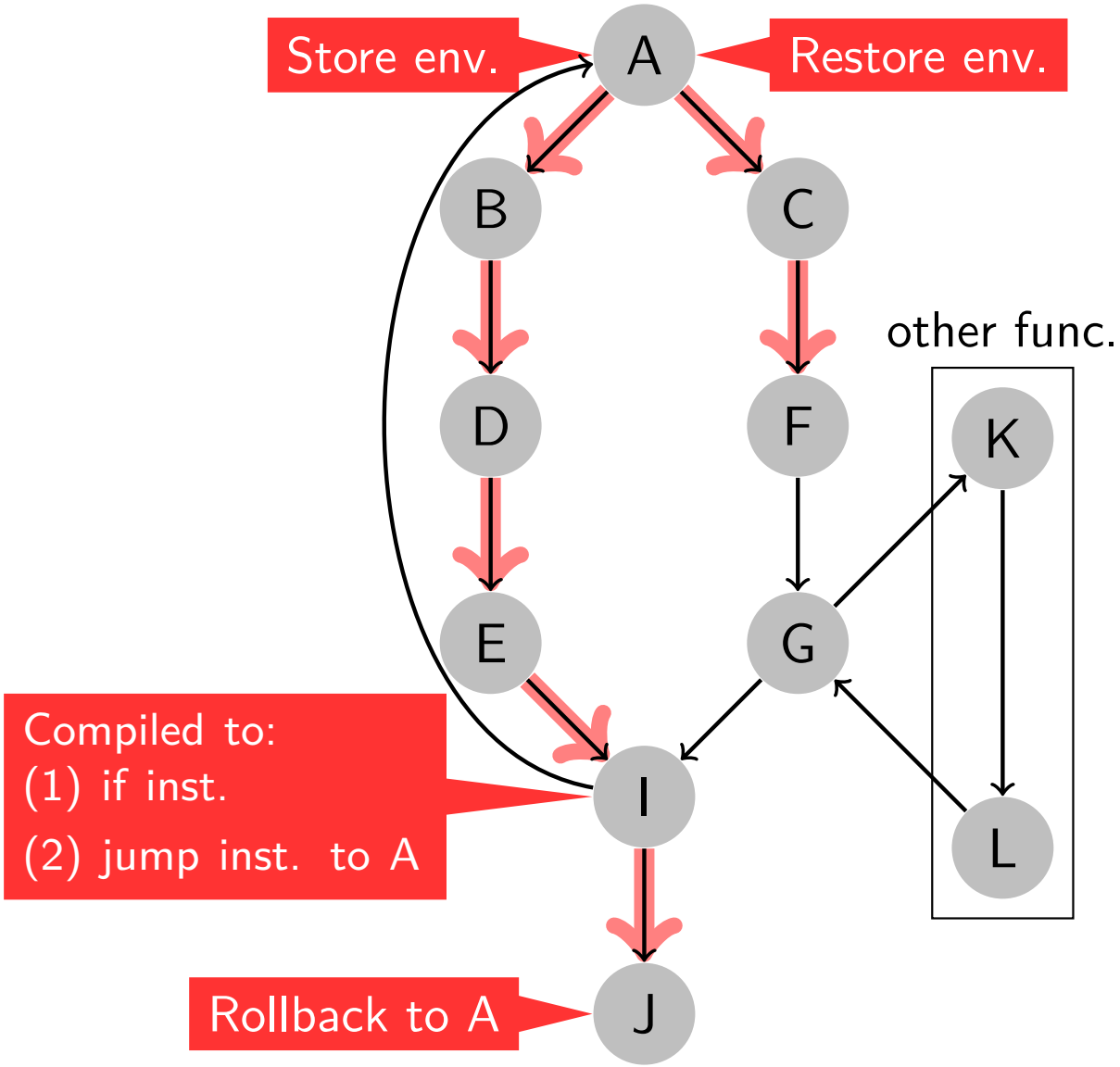
Slide 1


Store env.
A
Restore env.
B
C
other func.
D
F
K
E
G
Compiled to:
(1) if inst.
(2) jump inst. to A
I
L
Rollback to A
J

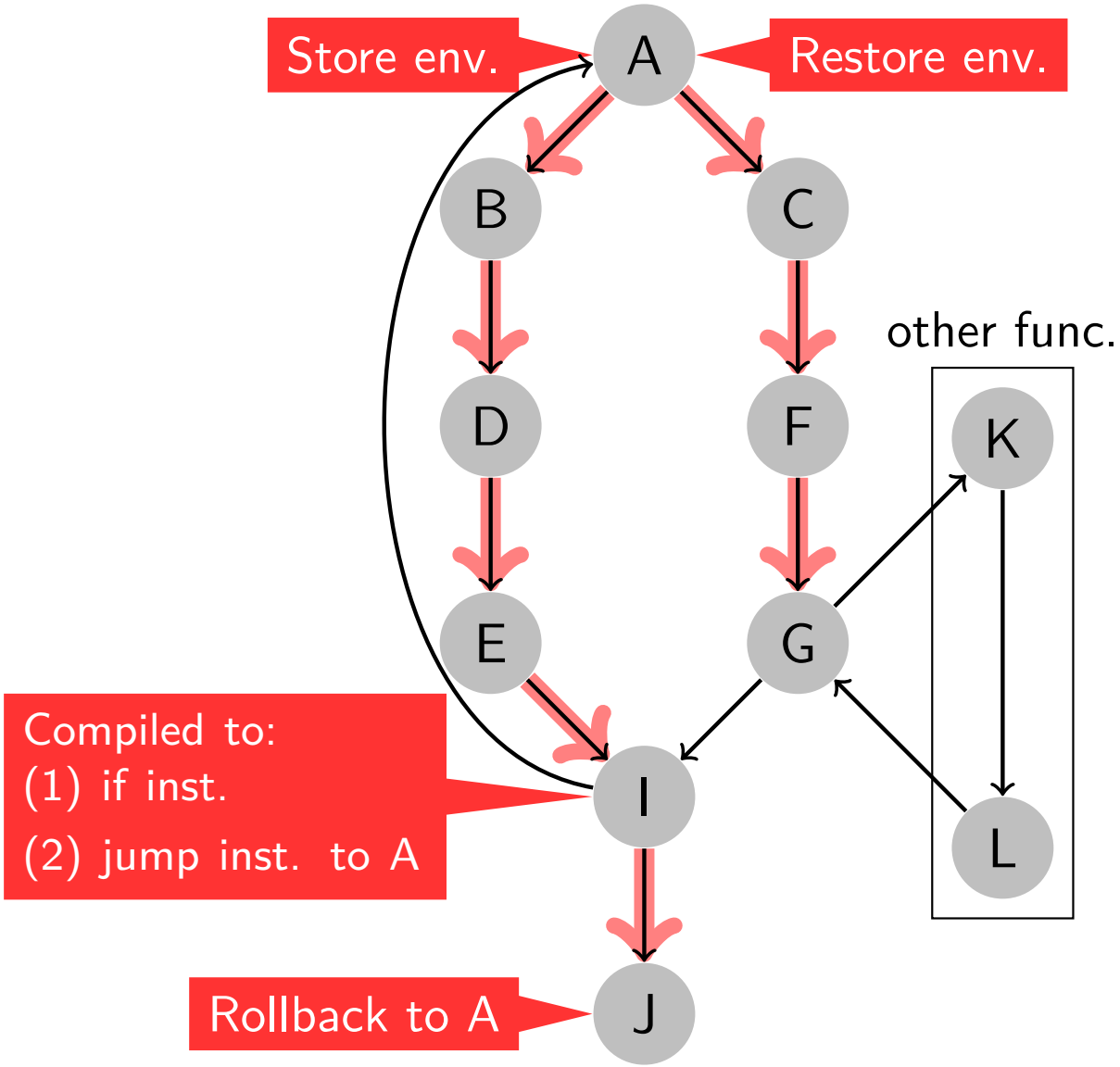
Slide 1


Store env.
A
Restore env.
B
C
other func.
D
F
K
E
G
Compiled to:
(1) if inst.
(2) jump inst. to A
I
L
Rollback to A
J

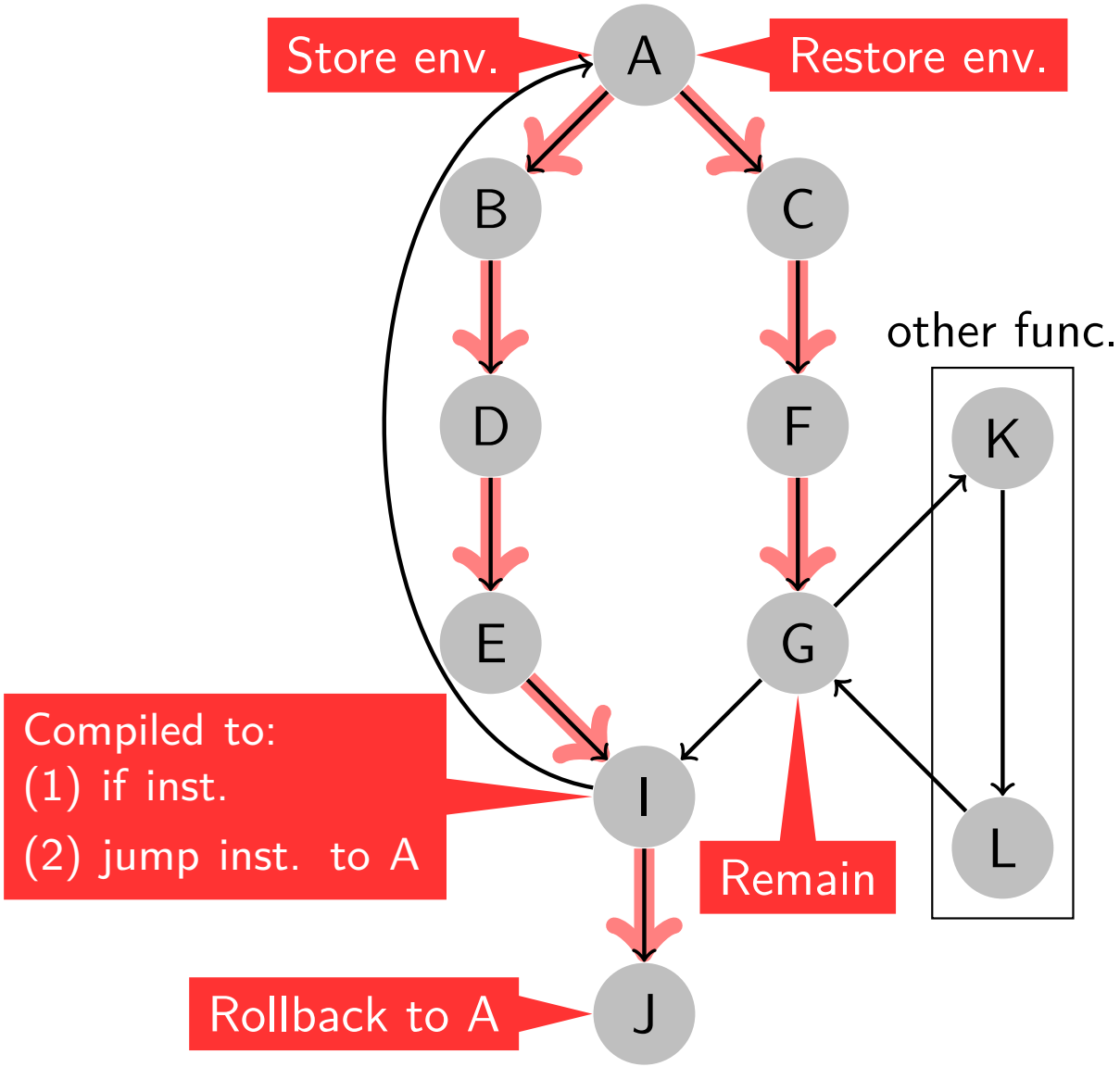
Slide 1


Store env.
A
Restore env.
B
C
other func.
D
F
K
E
G
Compiled to:
(1) if inst.
(2) jump inst. to A
I
L
Rollback to A
J

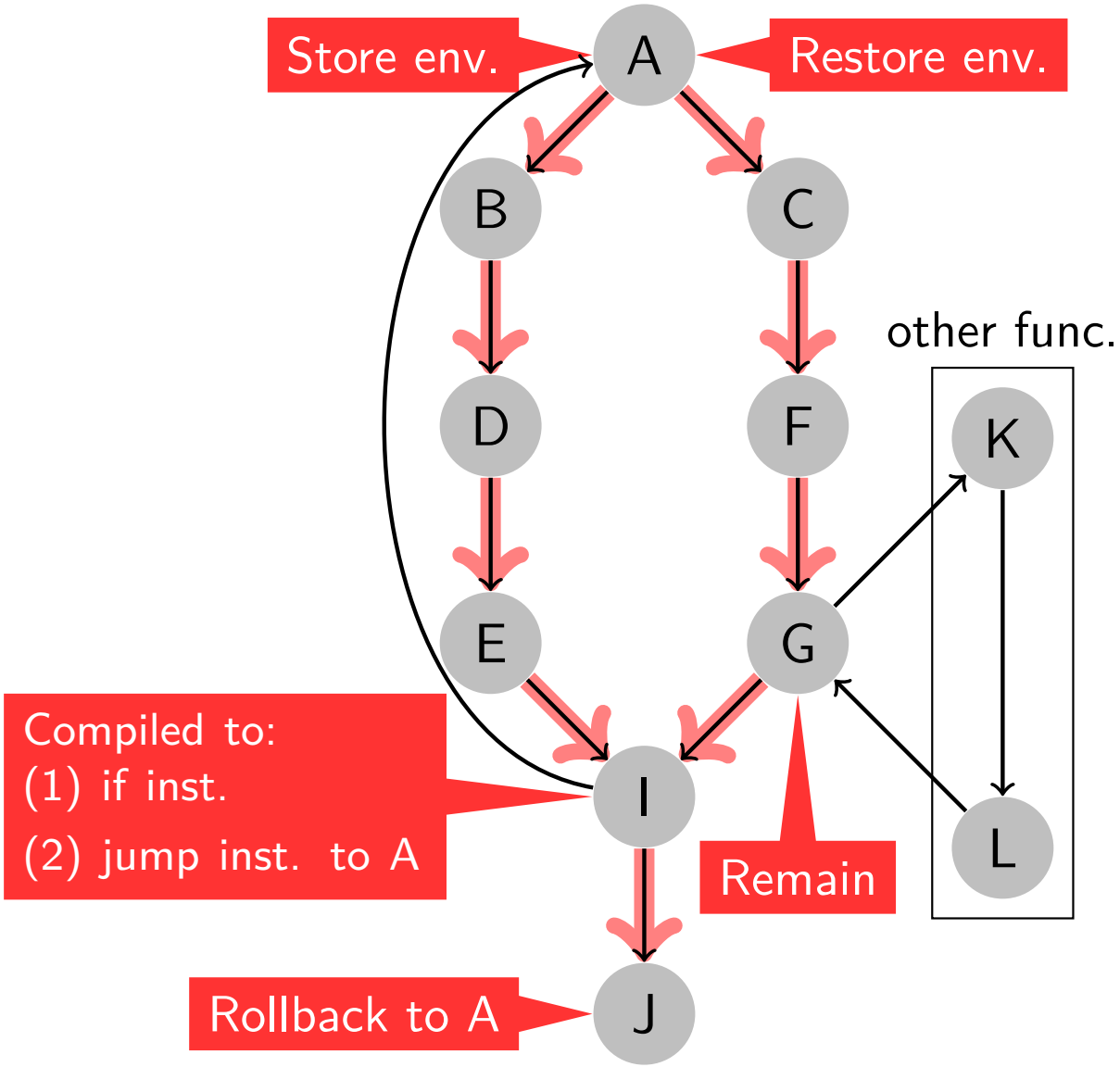
Slide 1


Store env.
A
Restore env.
B
C
other func.
D
F
K
E
G
Compiled to:
(1) if inst.
(2) jump inst. to A
I
L
Rollback to A
J

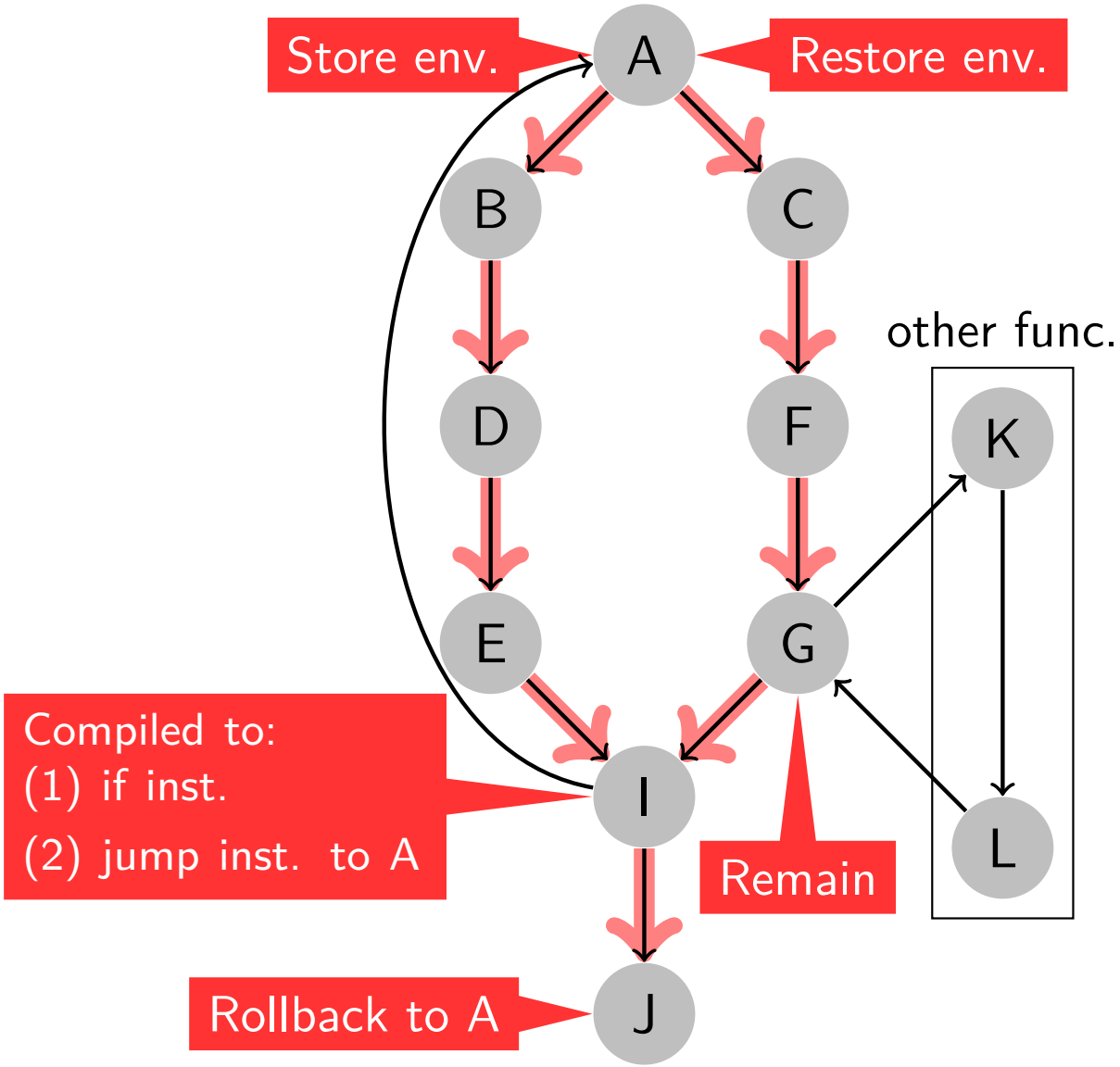
Slide 1


Store env.
A
Restore env.
B
C
other func.
D
F
K
E
G
Compiled to:
(1) if inst.
(2) jump inst. to A
I
Remain
L
Rollback to A
J

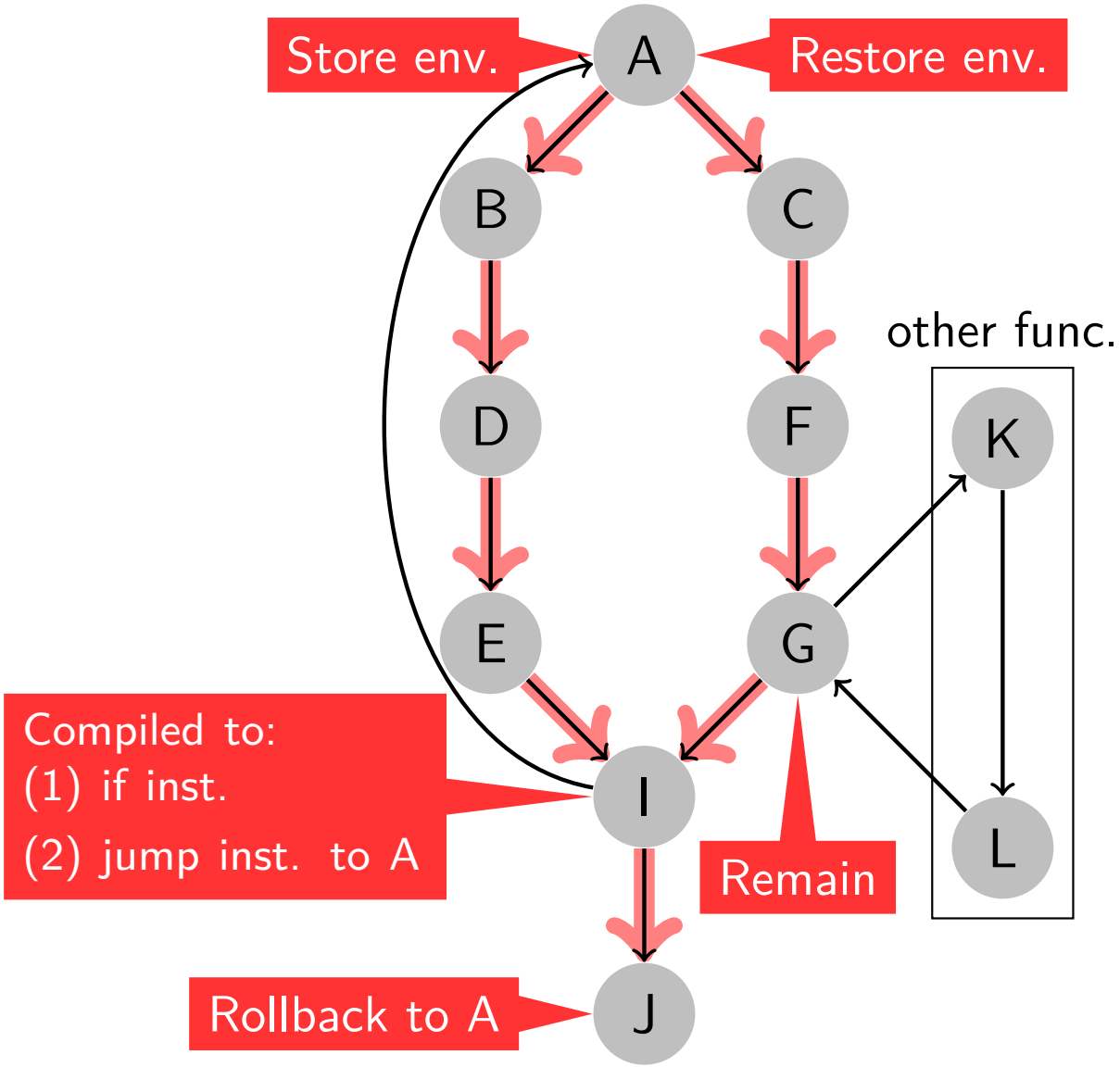
Slide 1

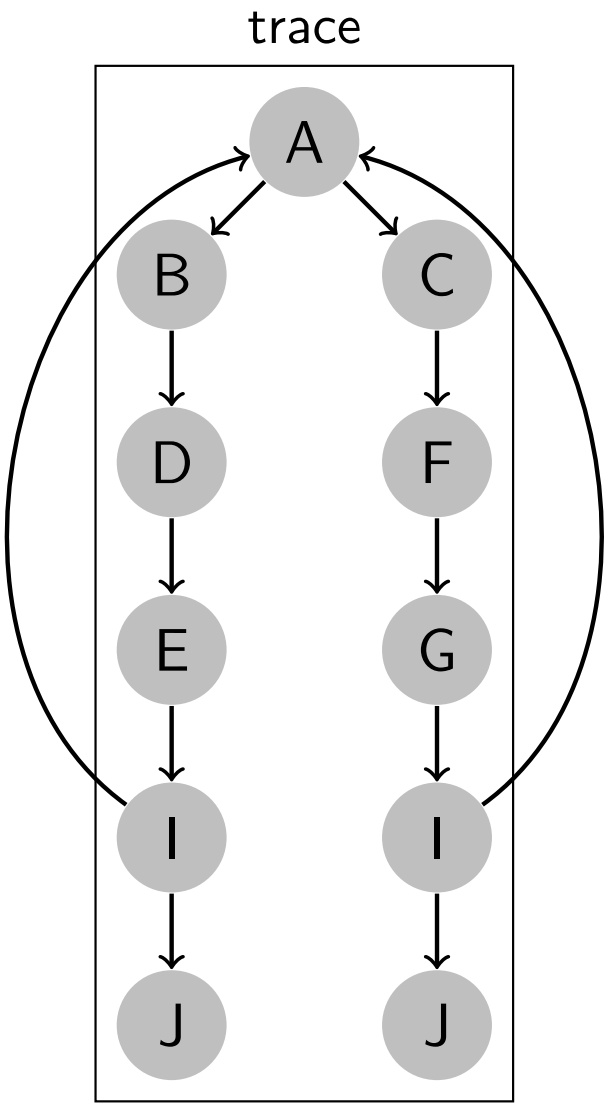

Store env.
A
Restore env.
B
C
other func.
D
F
K
E
G
Compiled to:
(1) if inst.
(2) jump inst. to A
I
Remain
L
Rollback to A
J

Slide 1


Store env.
A
Restore env.
B
C
other func.
D
F
K
E
G
Compiled to:
(1) if inst.
(2) jump inst. to A
I
Remain
L
Rollback to A
J

Slide 1


Store env.
Restore env.
A
B
C
D
F
E
G
I
J
other func.
K
L
Remain
Compiled to:
(1) if inst.
(2) jump inst. to A
Rollback to A


trace
A
B
C
D
F
E
G
I
I
J
J