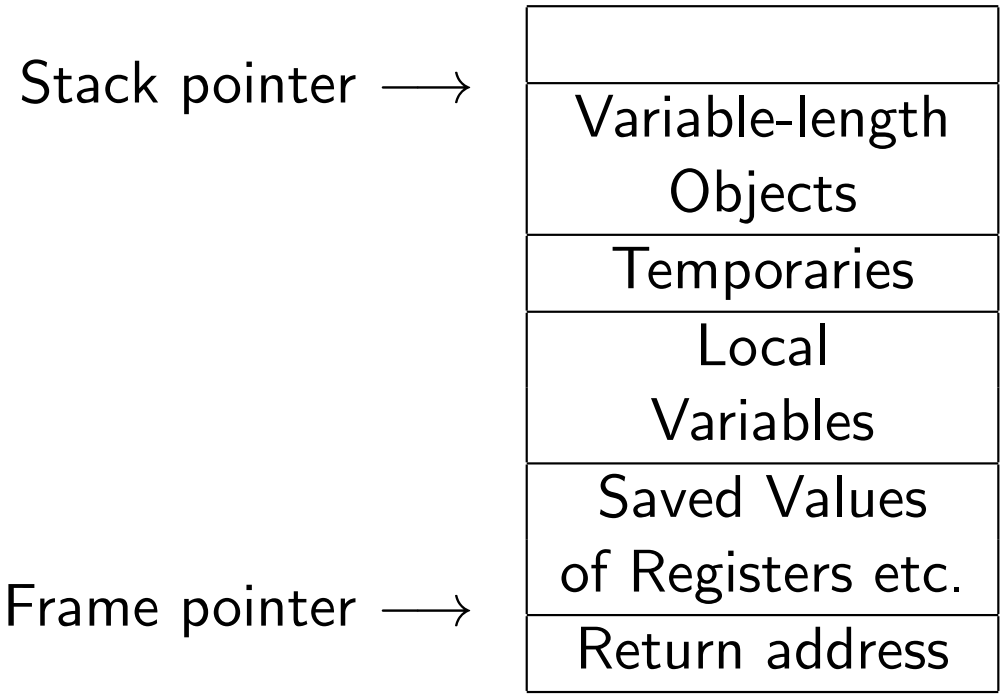
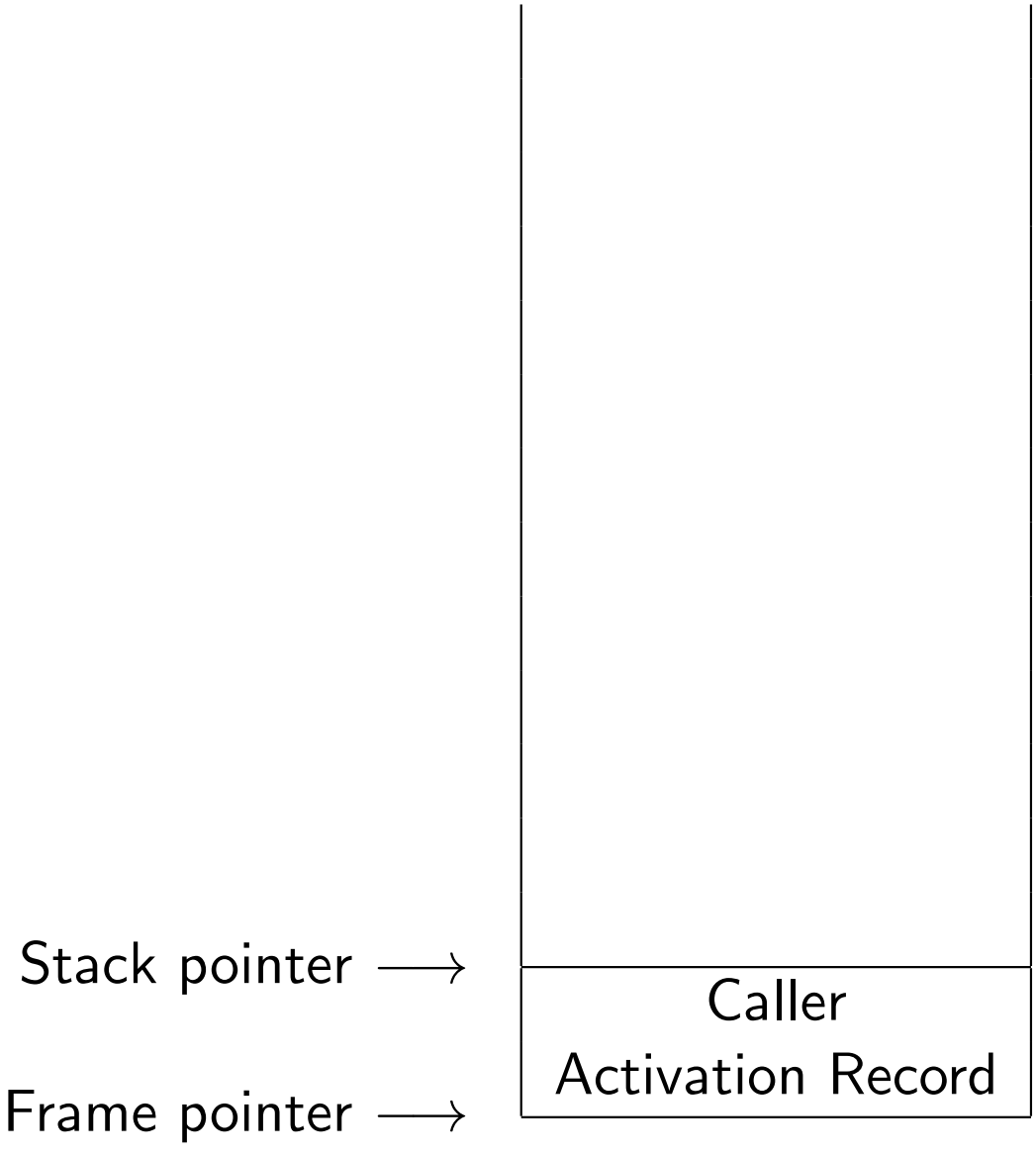
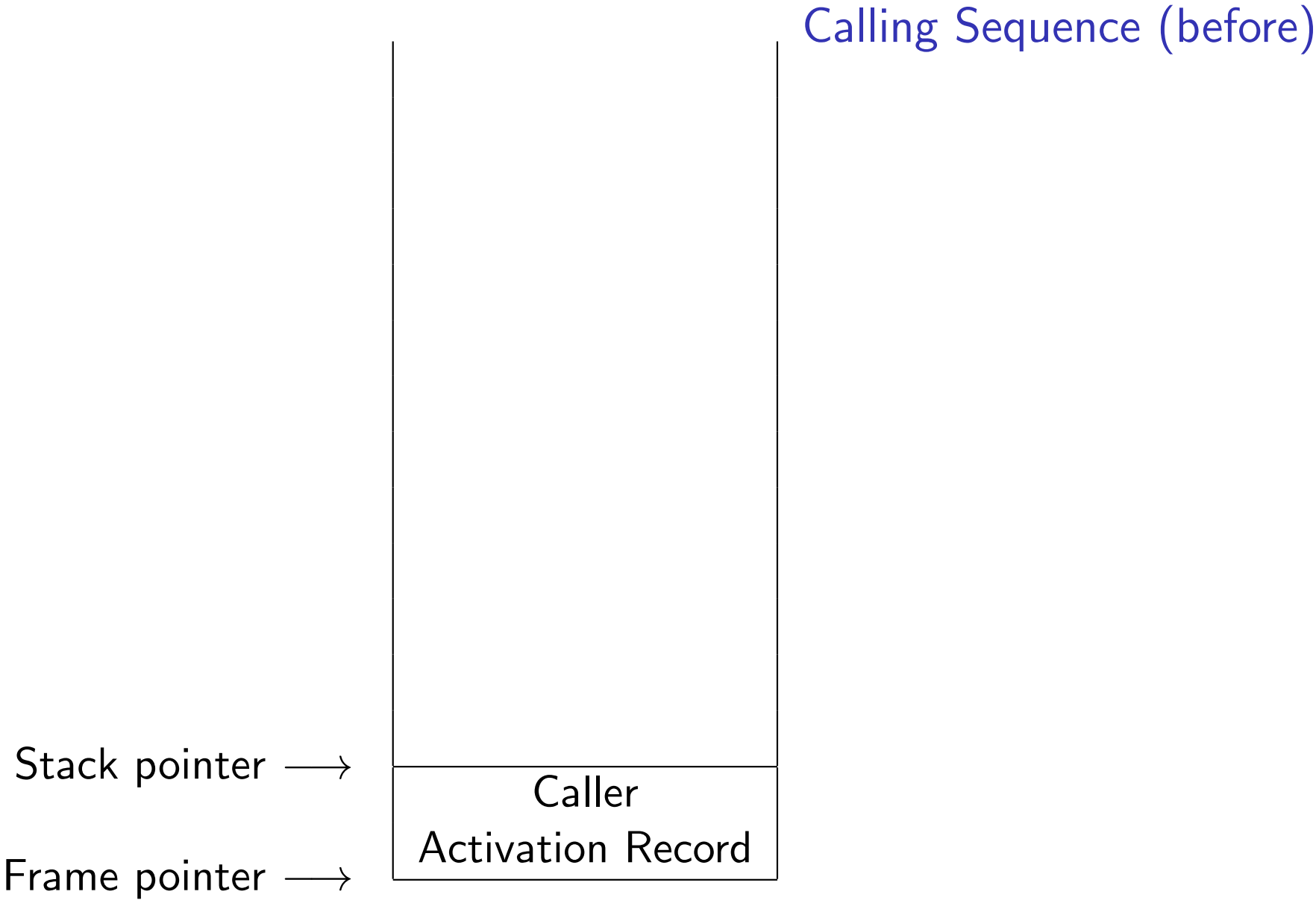
Typical Activation Record



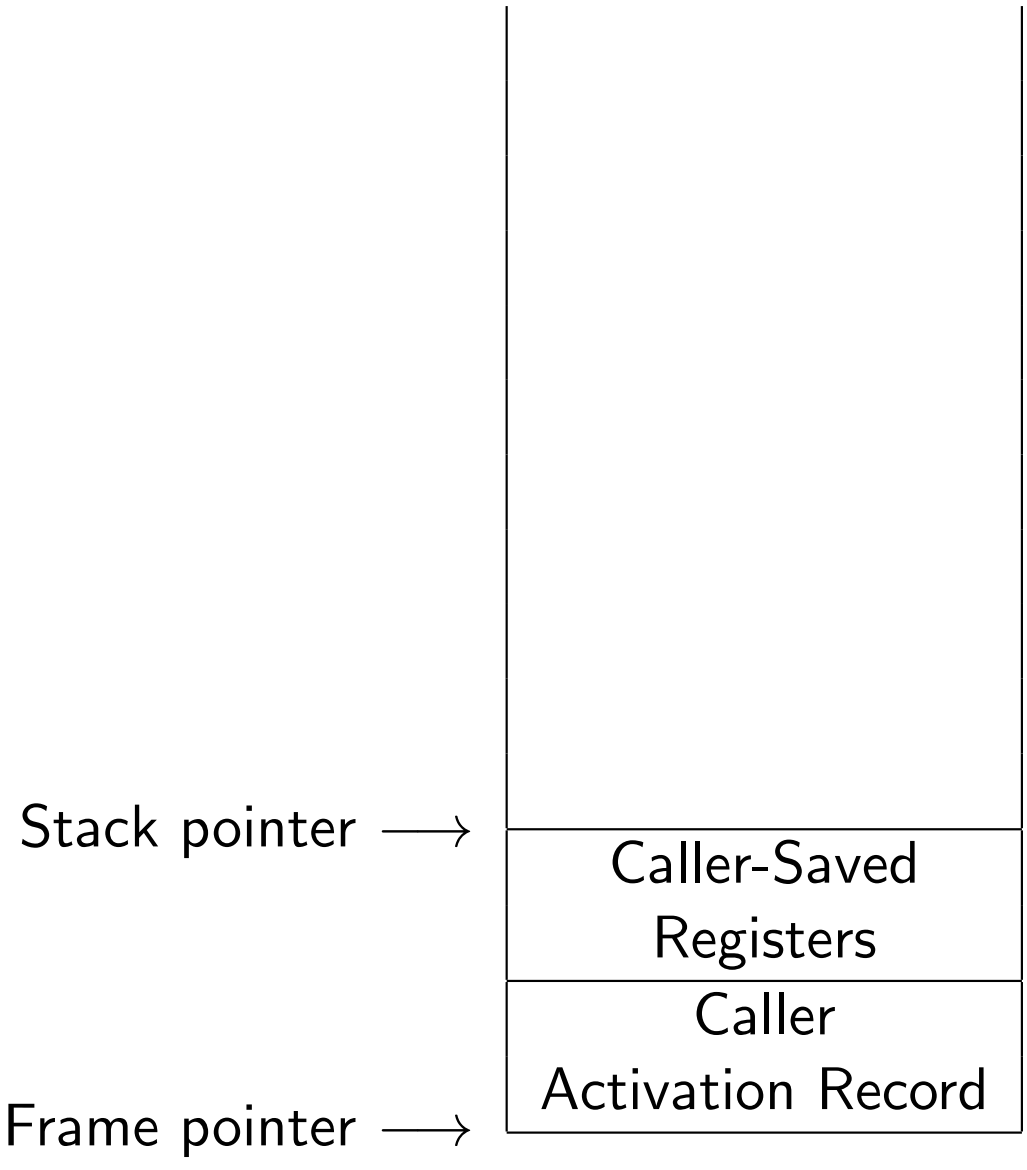
Calling a Subroutine



Calling a Subroutine



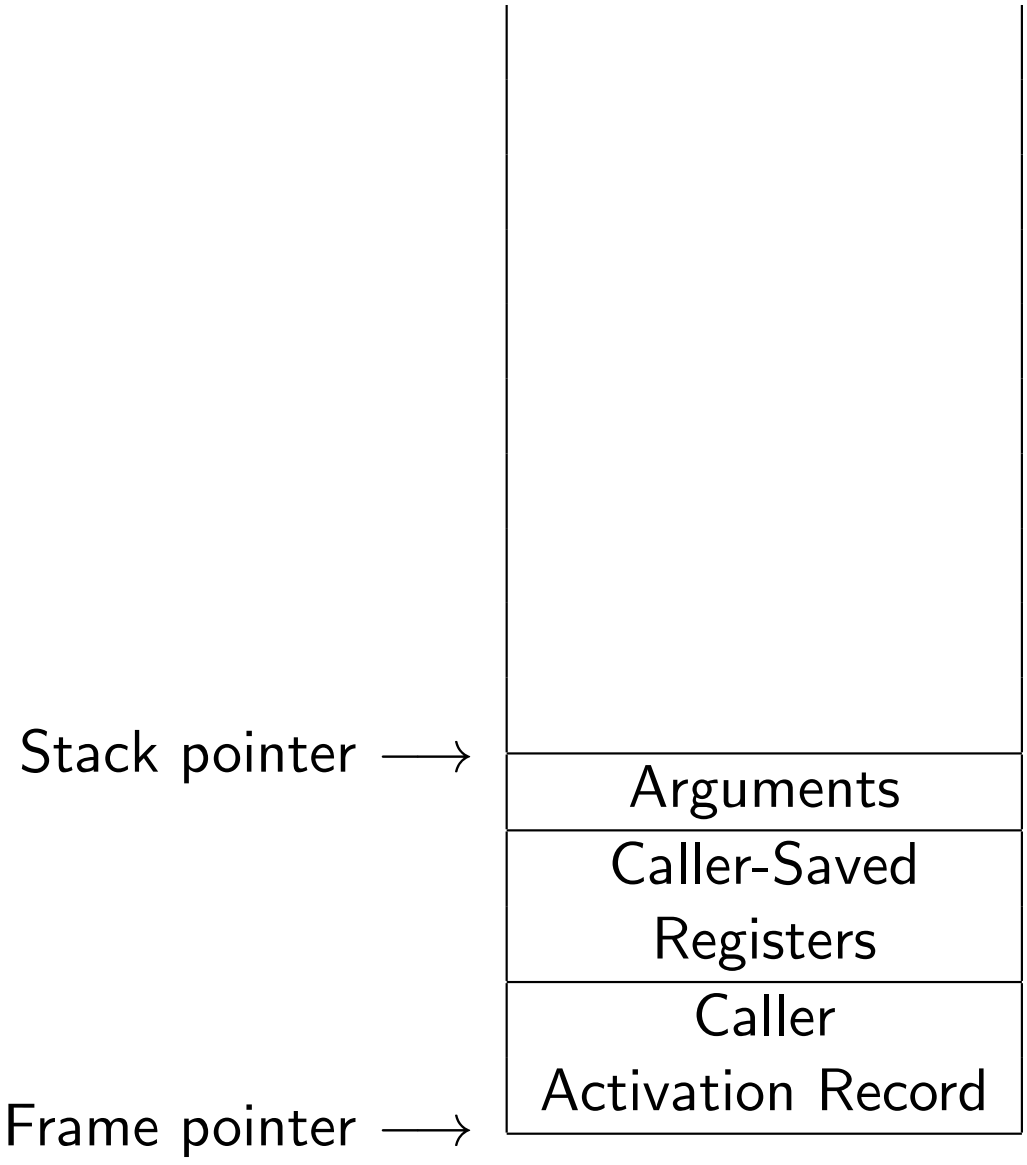
Typical Calling Sequence



Calling Sequence (before)

1. Save caller-save registers

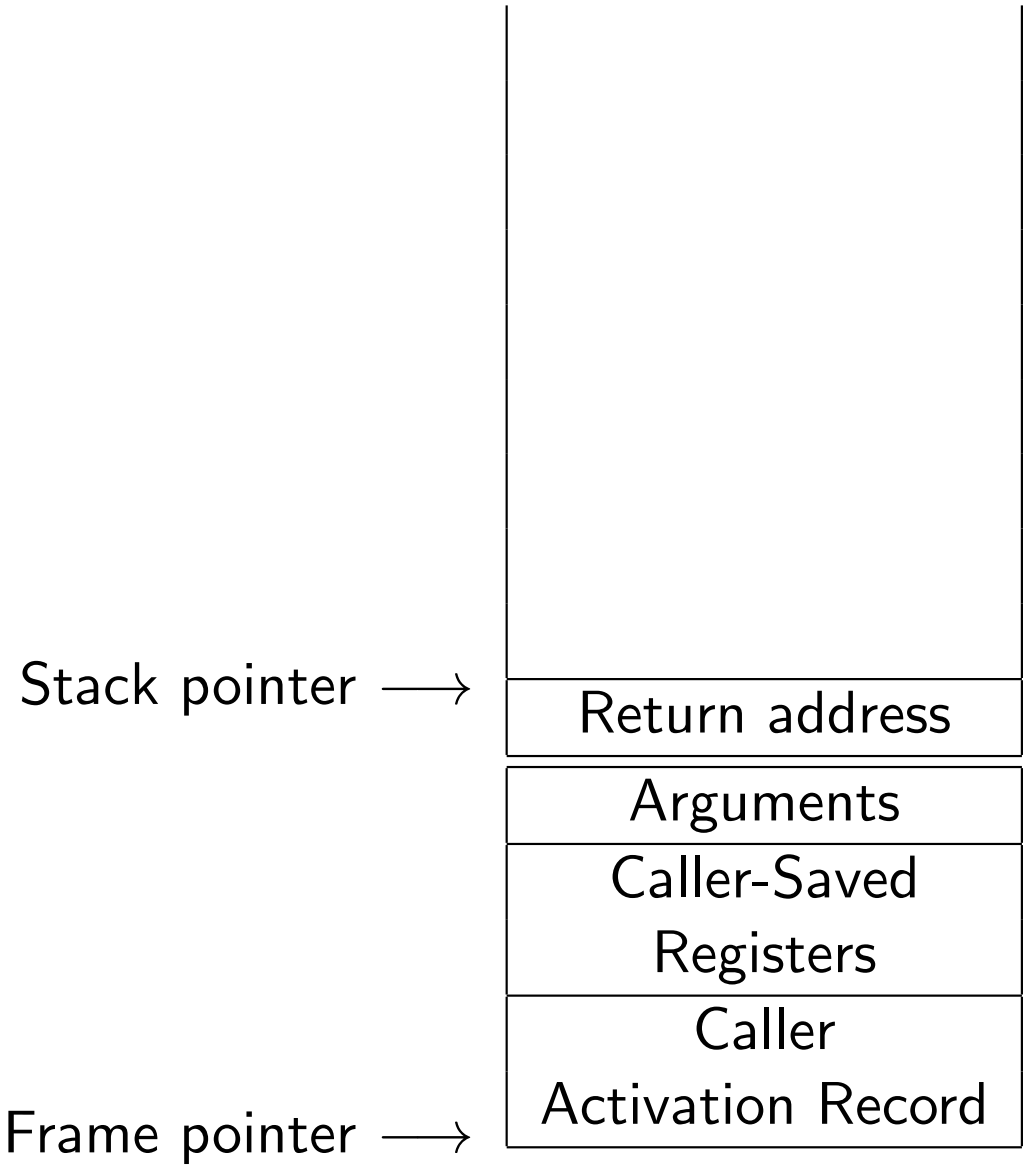
Typical Calling Sequence



Calling Sequence (before)

1. Save caller-save registers
2. Push arguments on stack

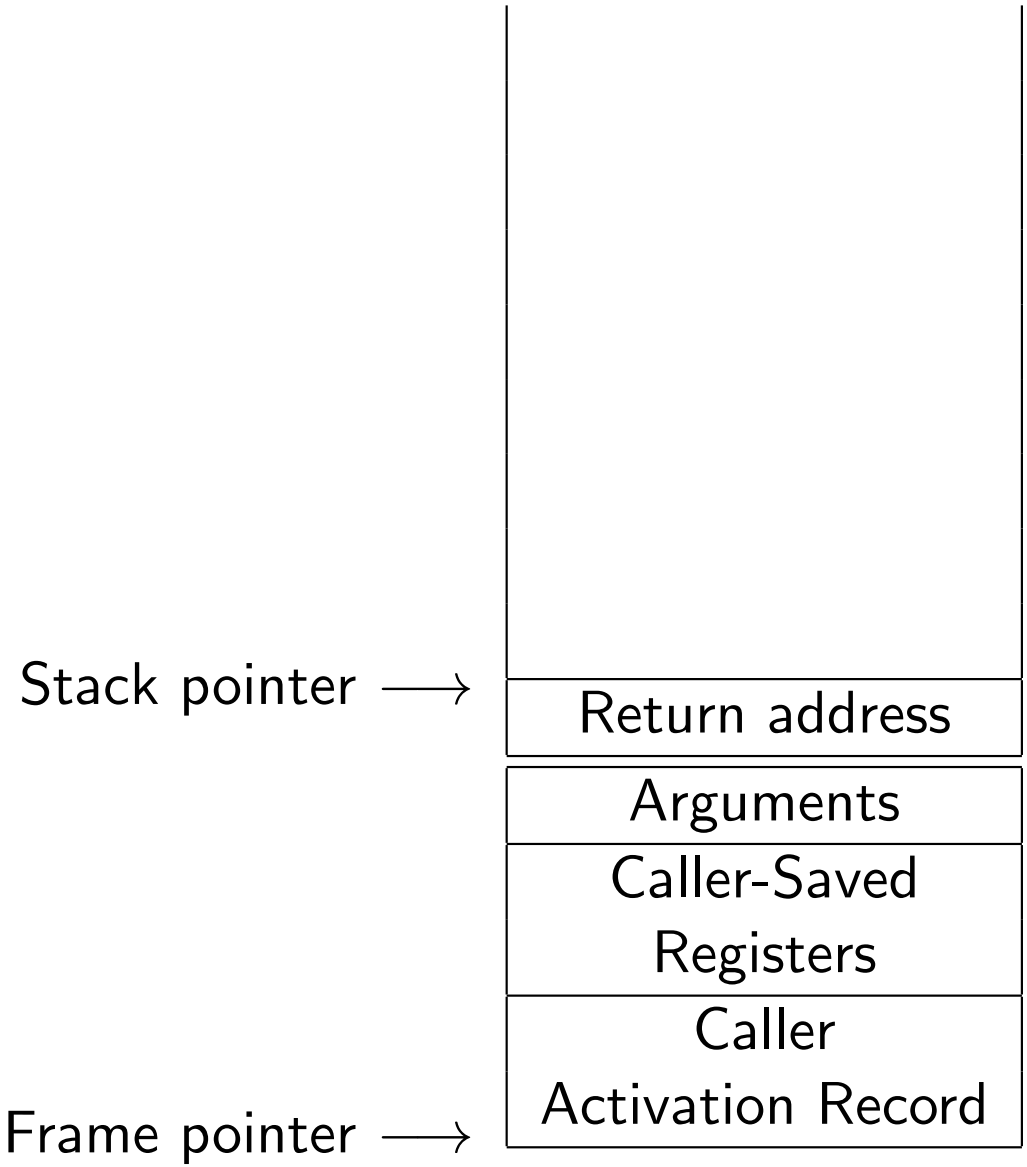
Typical Calling Sequence



Calling Sequence (before)

1. Save caller-save registers
2. Push arguments on stack
3. Jump to subroutine, saving return address on stack

Typical Calling Sequence

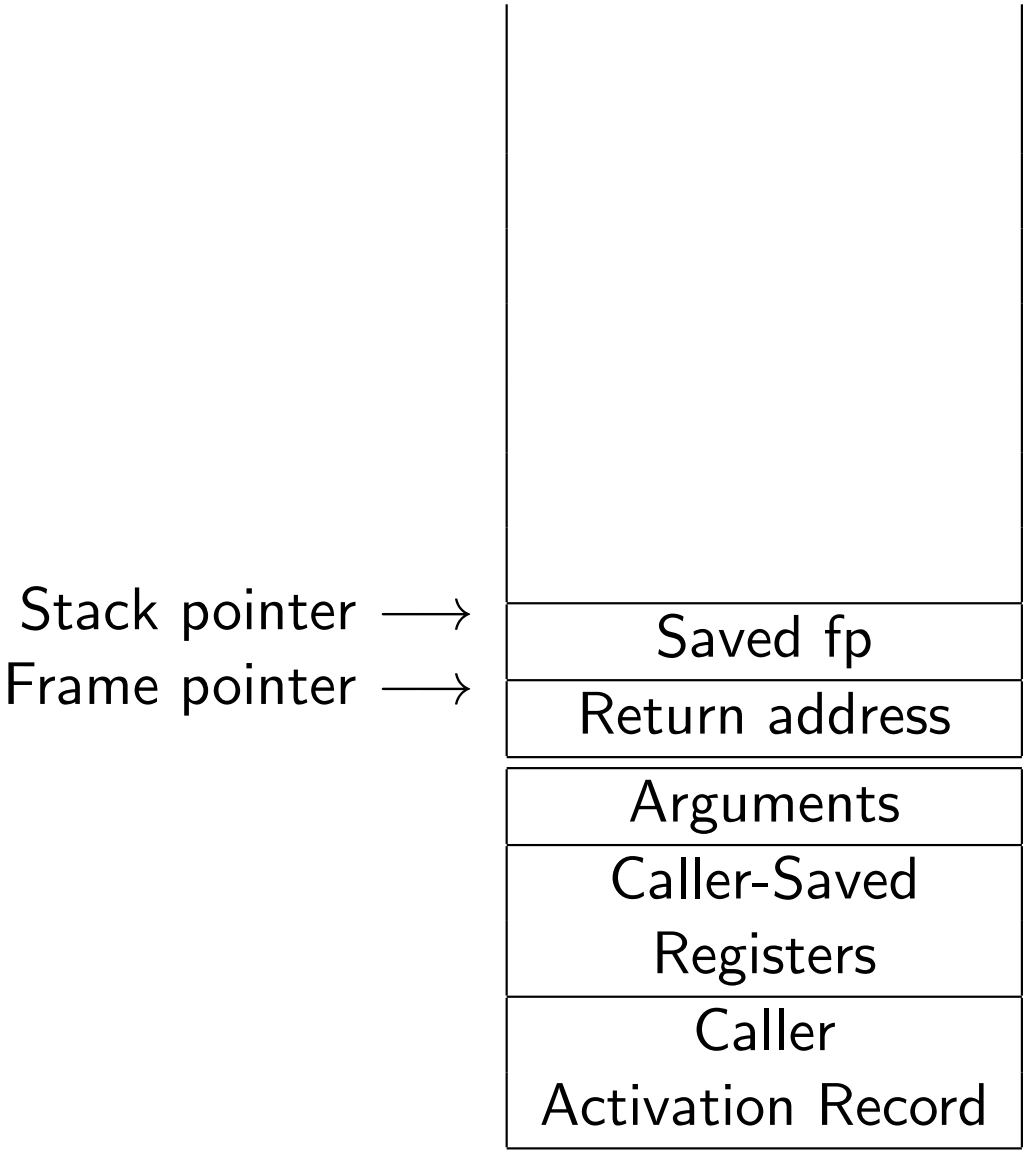


Calling Sequence (before)

1. Save caller-save registers
2. Push arguments on stack
3. Jump to subroutine, saving return address on stack

Prologue

Typical Calling Sequence



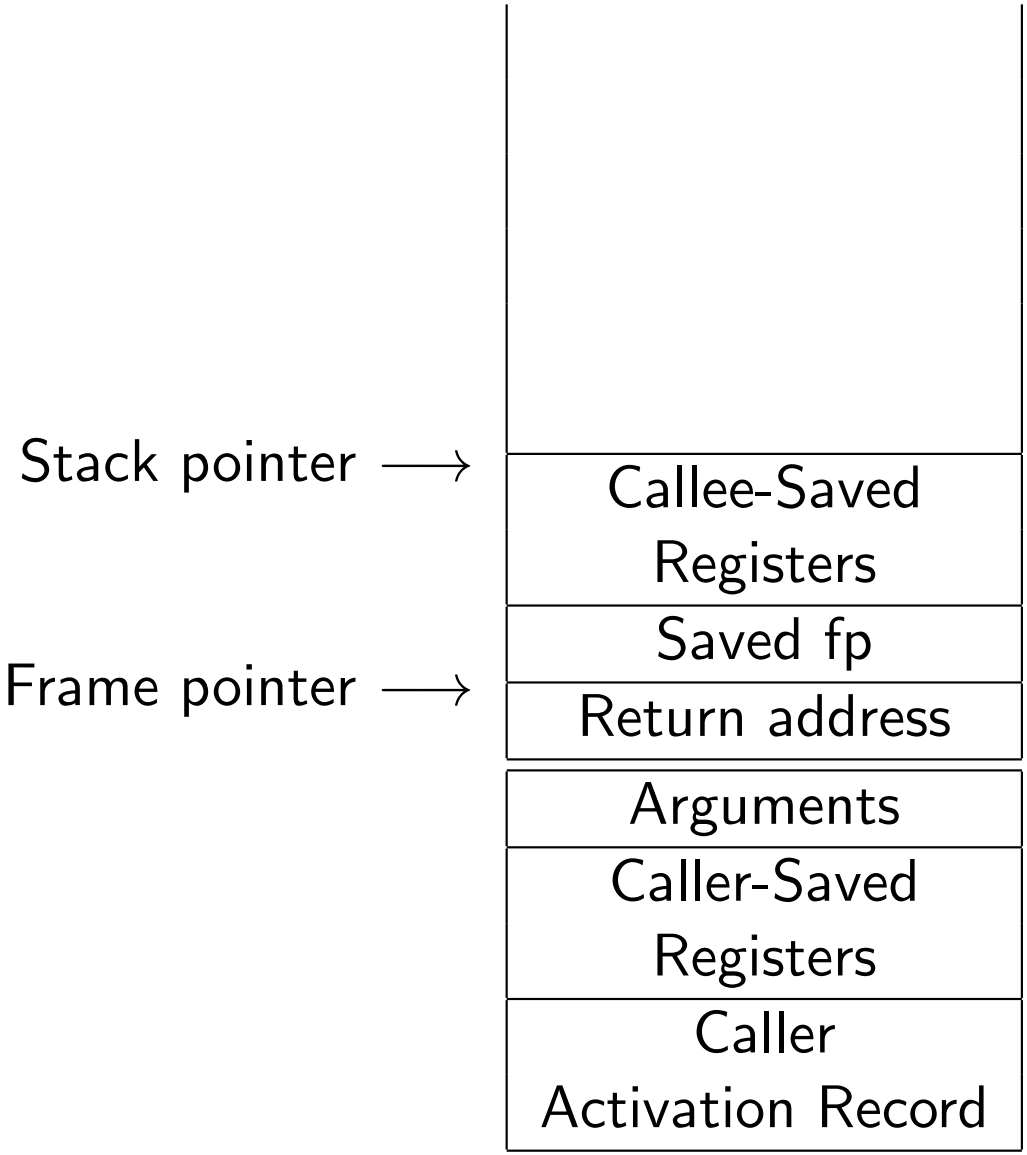
Calling Sequence (before)

1. Save caller-save registers
2. Push arguments on stack
3. Jump to subroutine, saving return address on stack

Prologue

1. Save old fp, set new fp

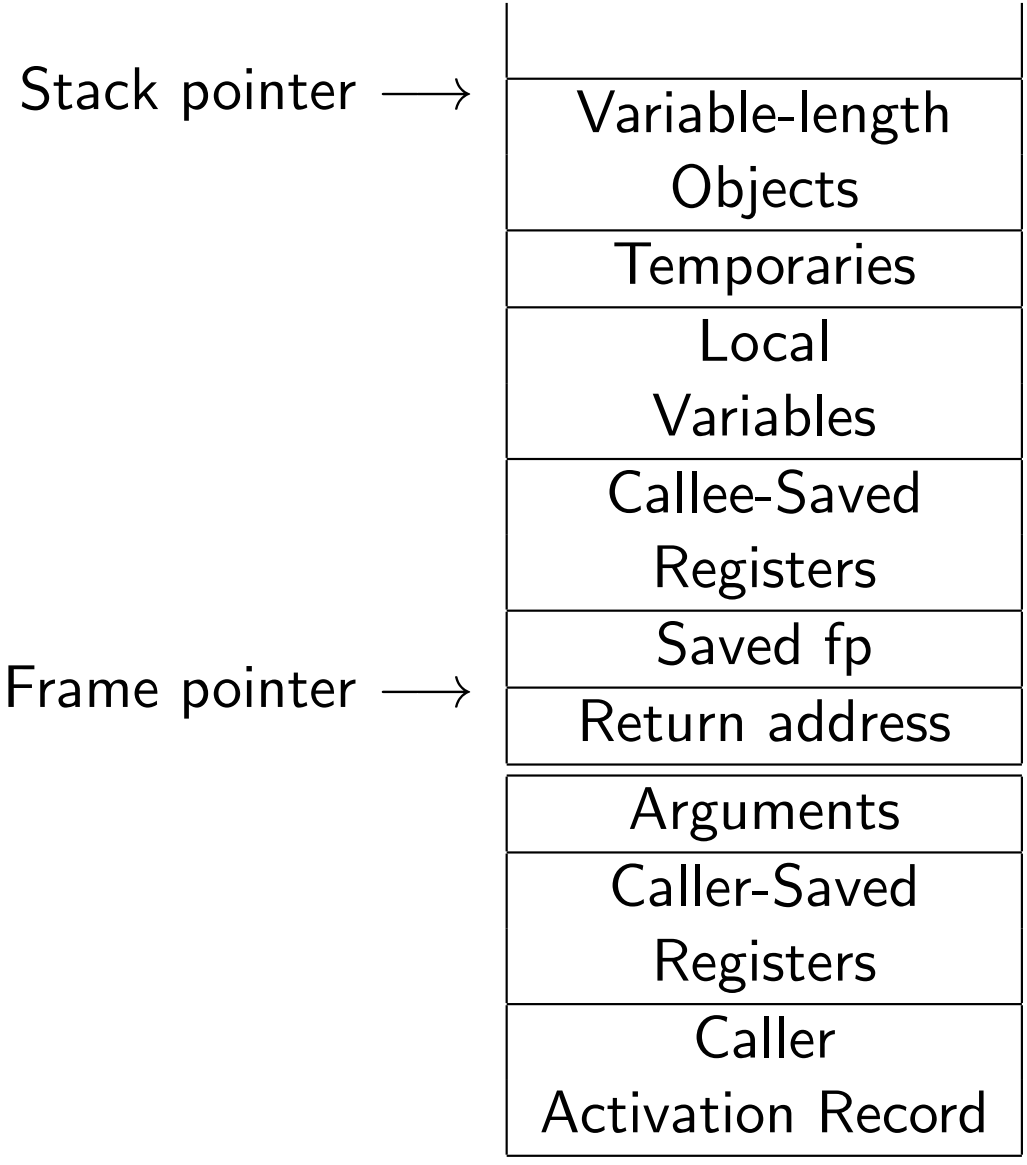
Typical Calling Sequence



Calling Sequence (before)

1. Save caller-save registers

Typical Calling Sequence



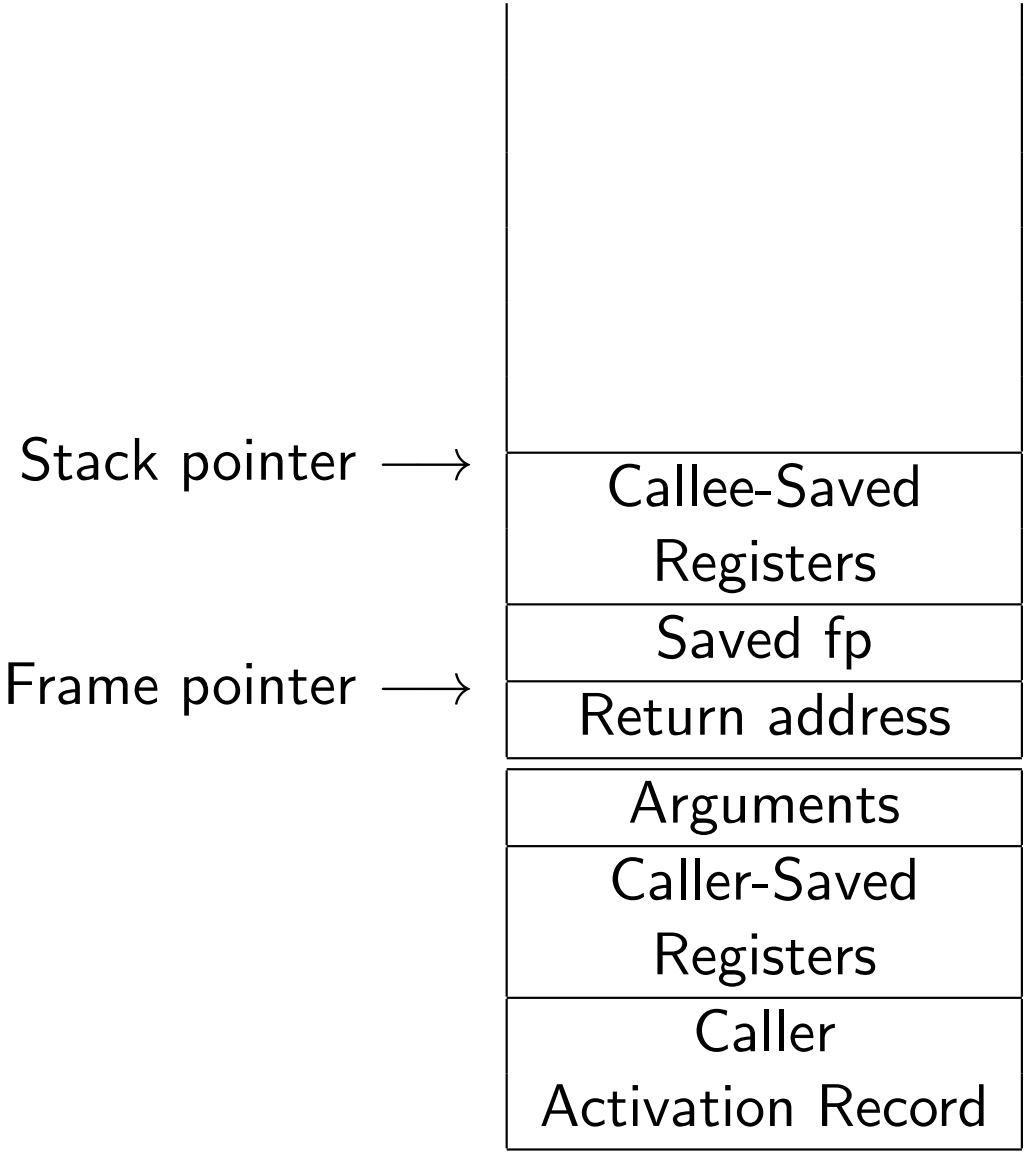
Calling Sequence (before)

1. Save caller-save registers
2. Push arguments on stack
3. Jump to subroutine, saving return address on stack

Prologue

1. Save old fp, set new fp
2. Save callee-save registers

Typical Calling Sequence



Calling Sequence (before)

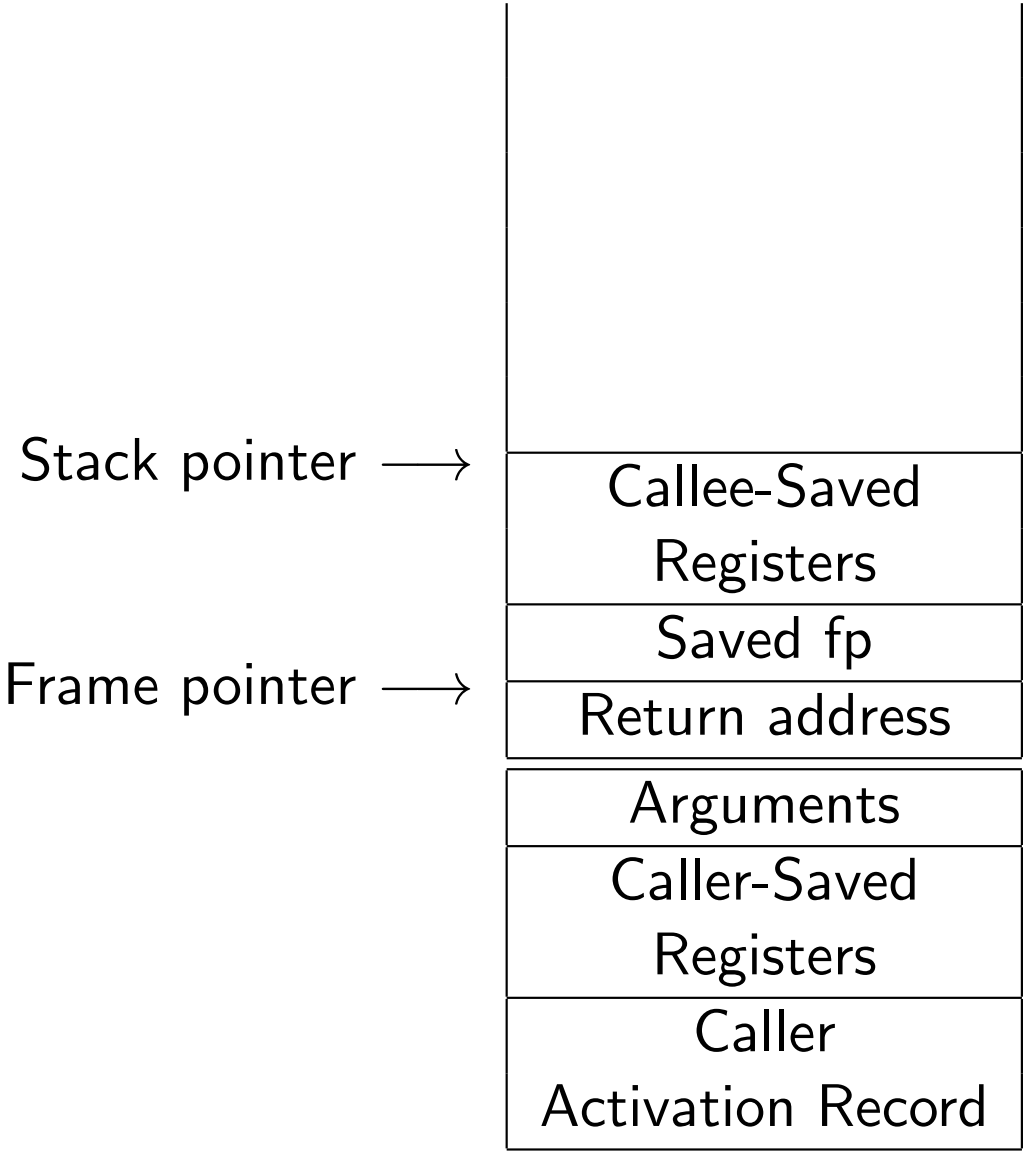
1. Save caller-save registers
2. Push arguments on stack
3. Jump to subroutine, saving return address on stack

Prologue

1. Save old fp, set new fp
2. Save callee-save registers

Epilogue

Typical Calling Sequence



Calling Sequence (before)

1. Save caller-save registers
2. Push arguments on stack
3. Jump to subroutine, saving return address on stack

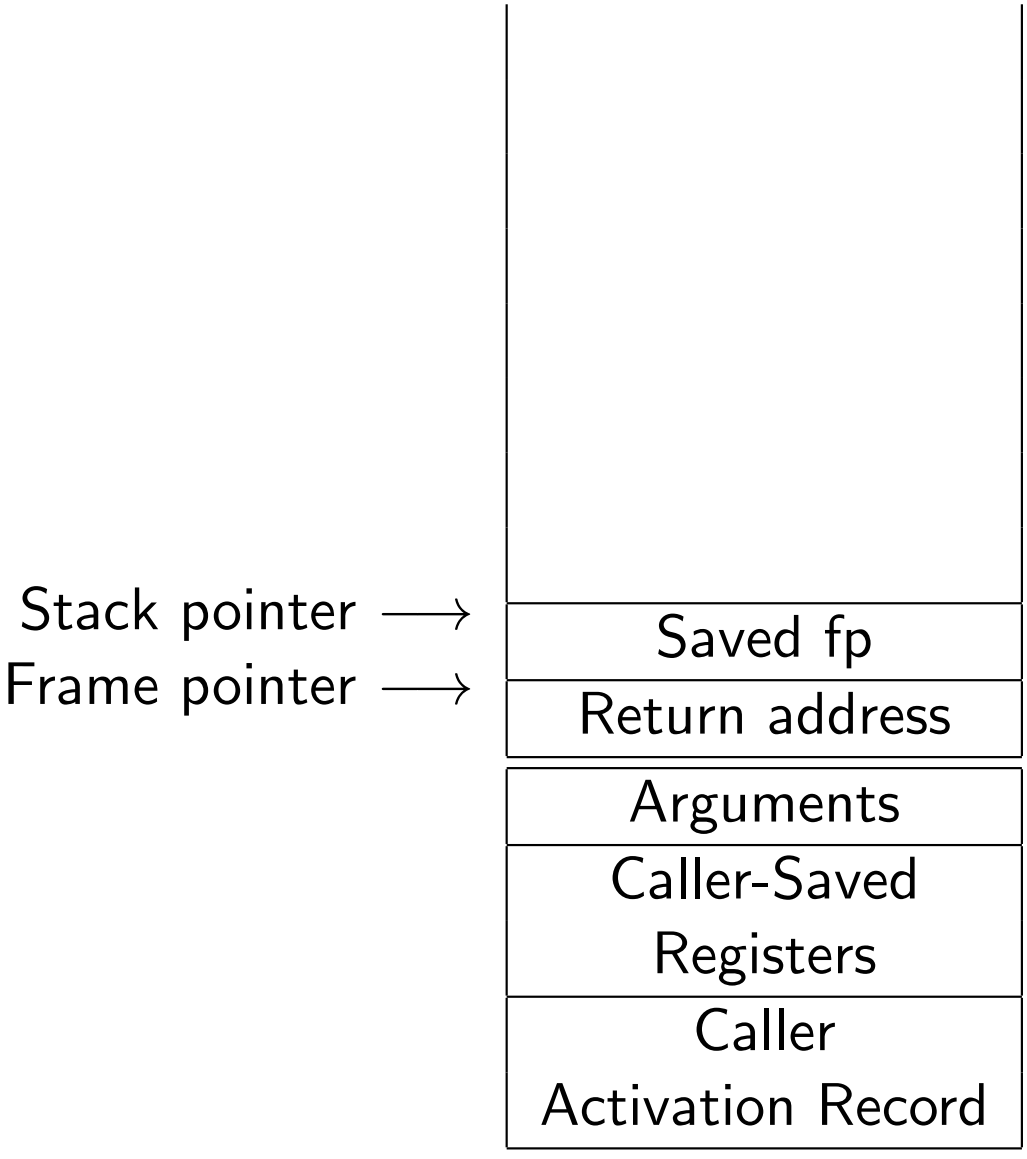
Prologue

1. Save old fp, set new fp
2. Save callee-save registers

Epilogue

1. Restore callee-save registers

Typical Calling Sequence



Calling Sequence (before)

1. Save caller-save registers
2. Push arguments on stack
3. Jump to subroutine, saving return address on stack

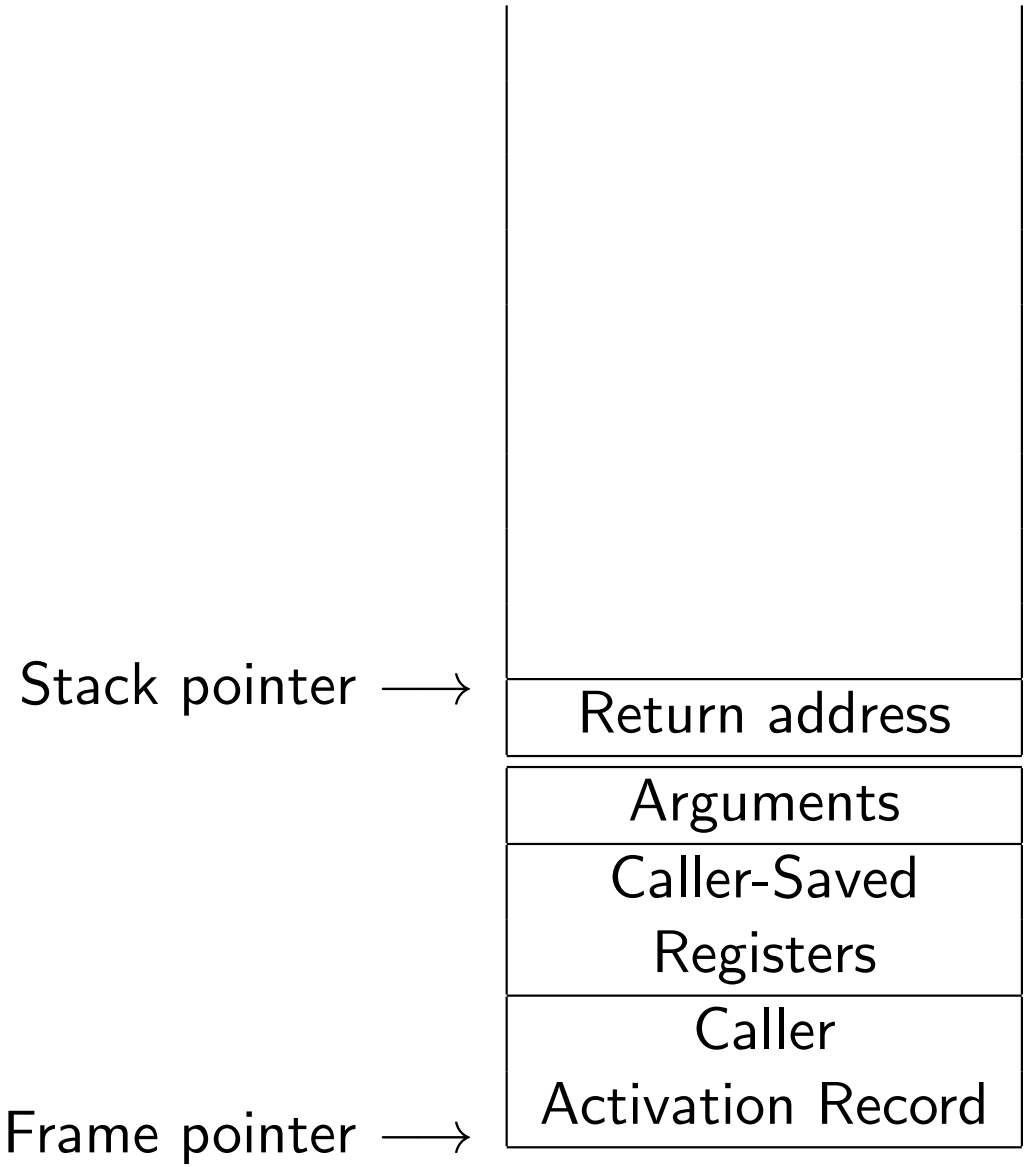
Prologue

1. Save old fp, set new fp
2. Save callee-save registers

Epilogue

1. Restore callee-save registers
2. Restore frame pointer

Typical Calling Sequence



Calling Sequence (before)

1. Save caller-save registers
2. Push arguments on stack
3. Jump to subroutine, saving return address on stack

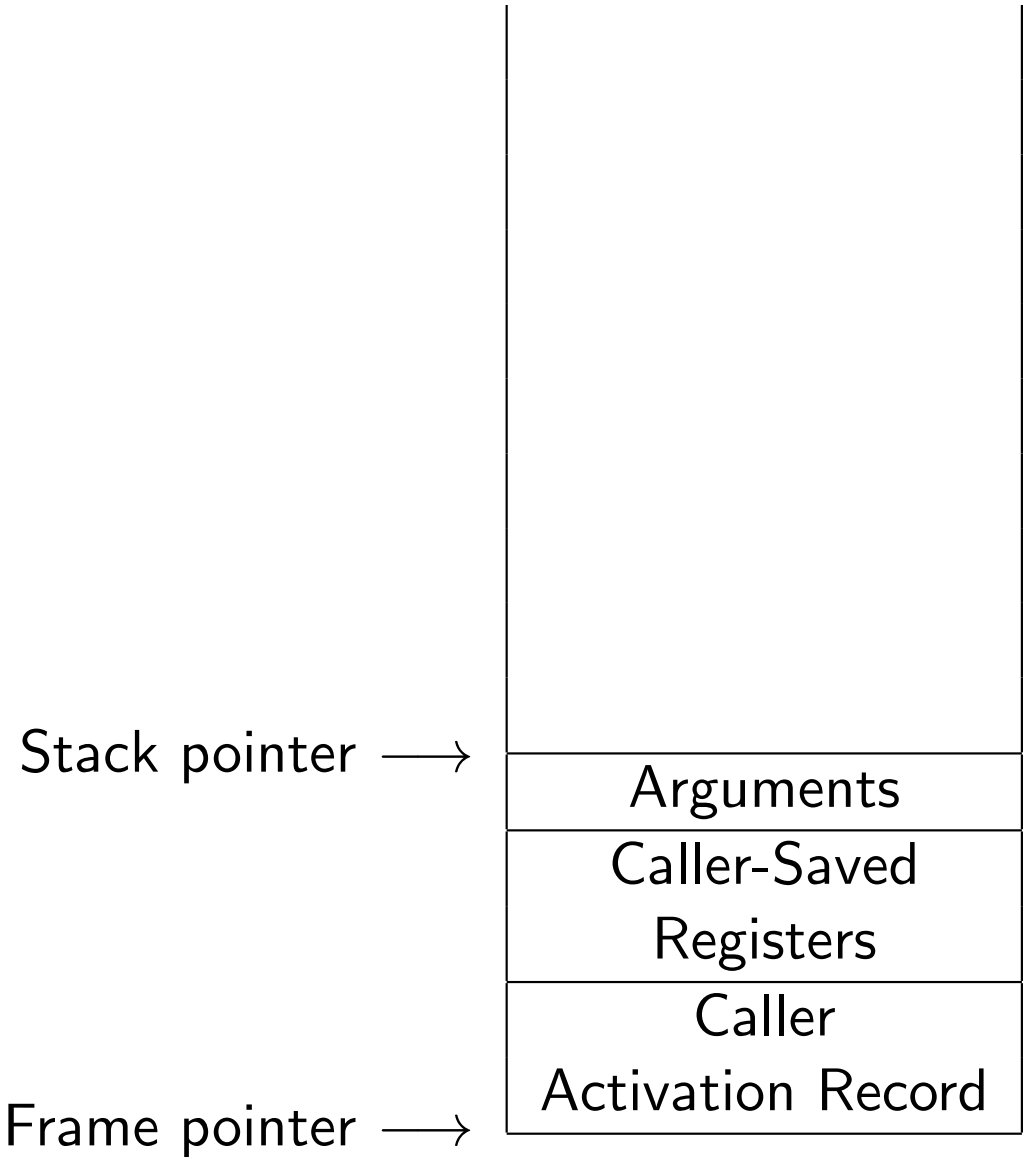
Prologue

1. Save old fp, set new fp
2. Save callee-save registers

Epilogue

1. Restore callee-save registers
2. Restore frame pointer
3. Jump to return address

Typical Calling Sequence



Calling Sequence (before)

1. Save caller-save registers
2. Push arguments on stack
3. Jump to subroutine, saving return address on stack

Prologue

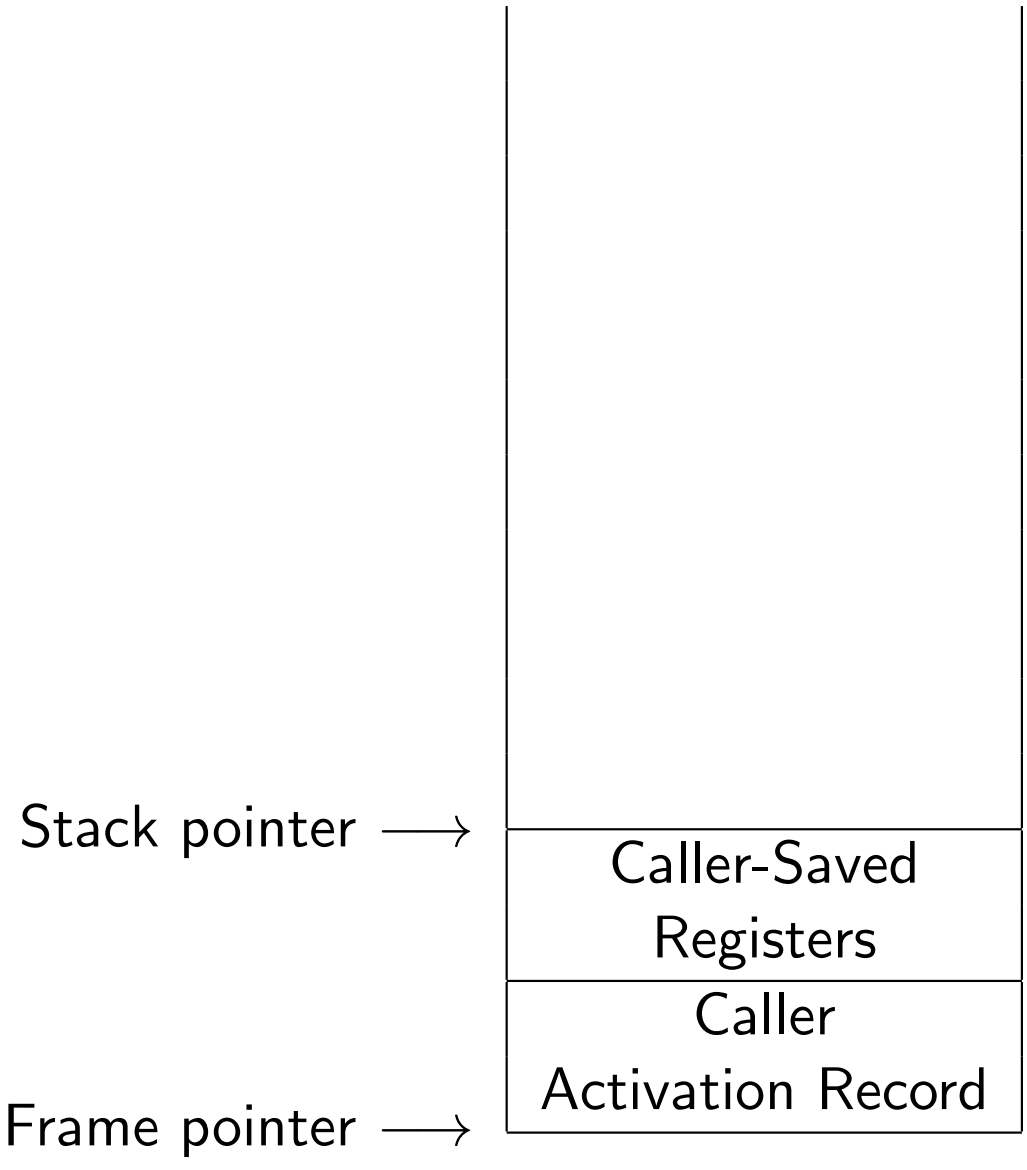
1. Save old fp, set new fp
2. Save callee-save registers

Epilogue

1. Restore callee-save registers
2. Restore frame pointer
3. Jump to return address

Calling Sequence (after)

Typical Calling Sequence



Calling Sequence (before)

1. Save caller-save registers
2. Push arguments on stack
3. Jump to subroutine, saving return address on stack

Prologue

1. Save old fp, set new fp
2. Save callee-save registers

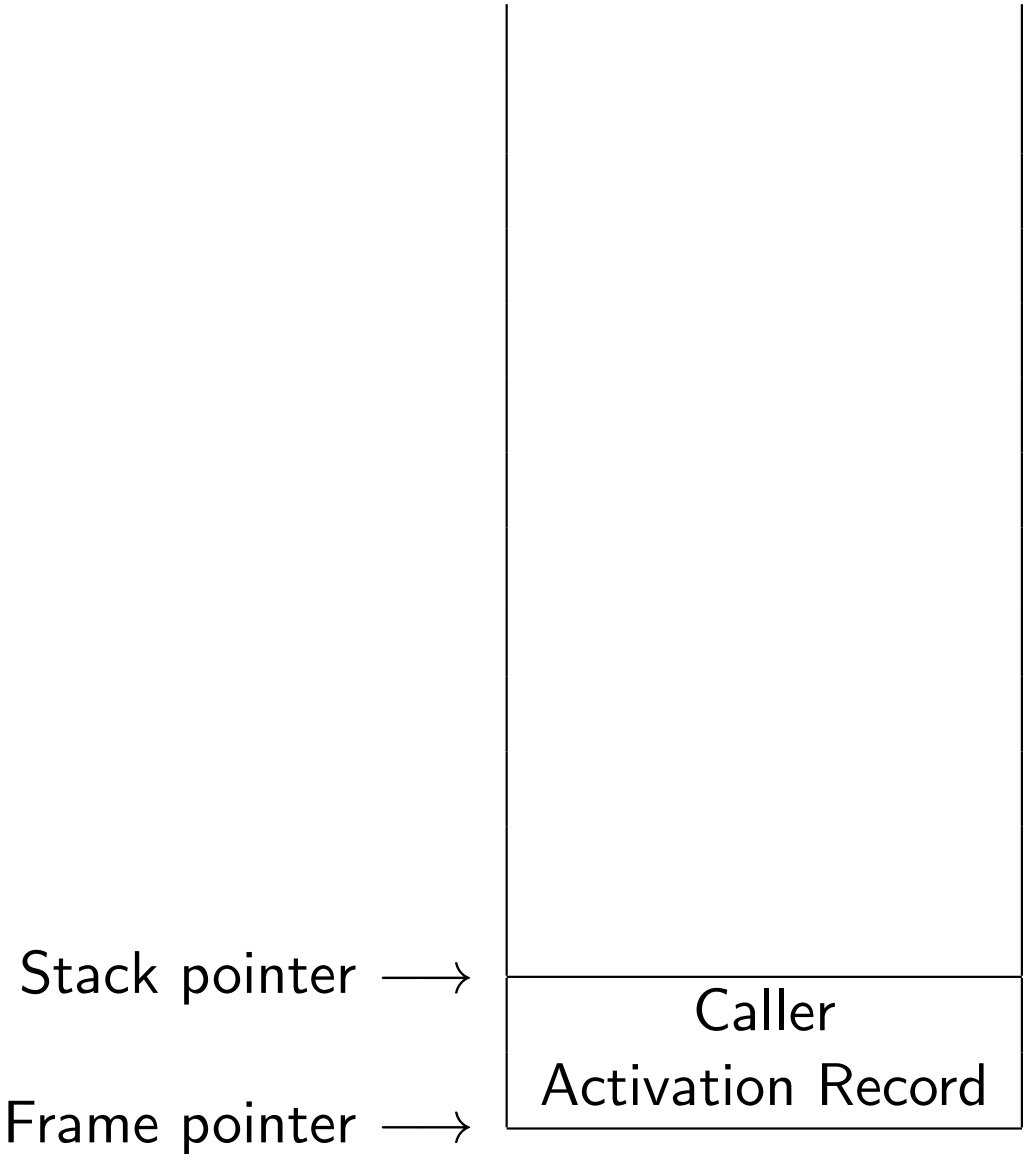
Epilogue

1. Restore callee-save registers
2. Restore frame pointer
3. Jump to return address

Calling Sequence (after)

1. Restore caller-save registers

Typical Calling Sequence



Calling Sequence (before)

1. Save caller-save registers
2. Push arguments on stack
3. Jump to subroutine, saving return address on stack

Prologue

1. Save old fp, set new fp
2. Save callee-save registers

Epilogue

1. Restore callee-save registers
2. Restore frame pointer
3. Jump to return address

Calling Sequence (after)

1. Restore caller-save registers