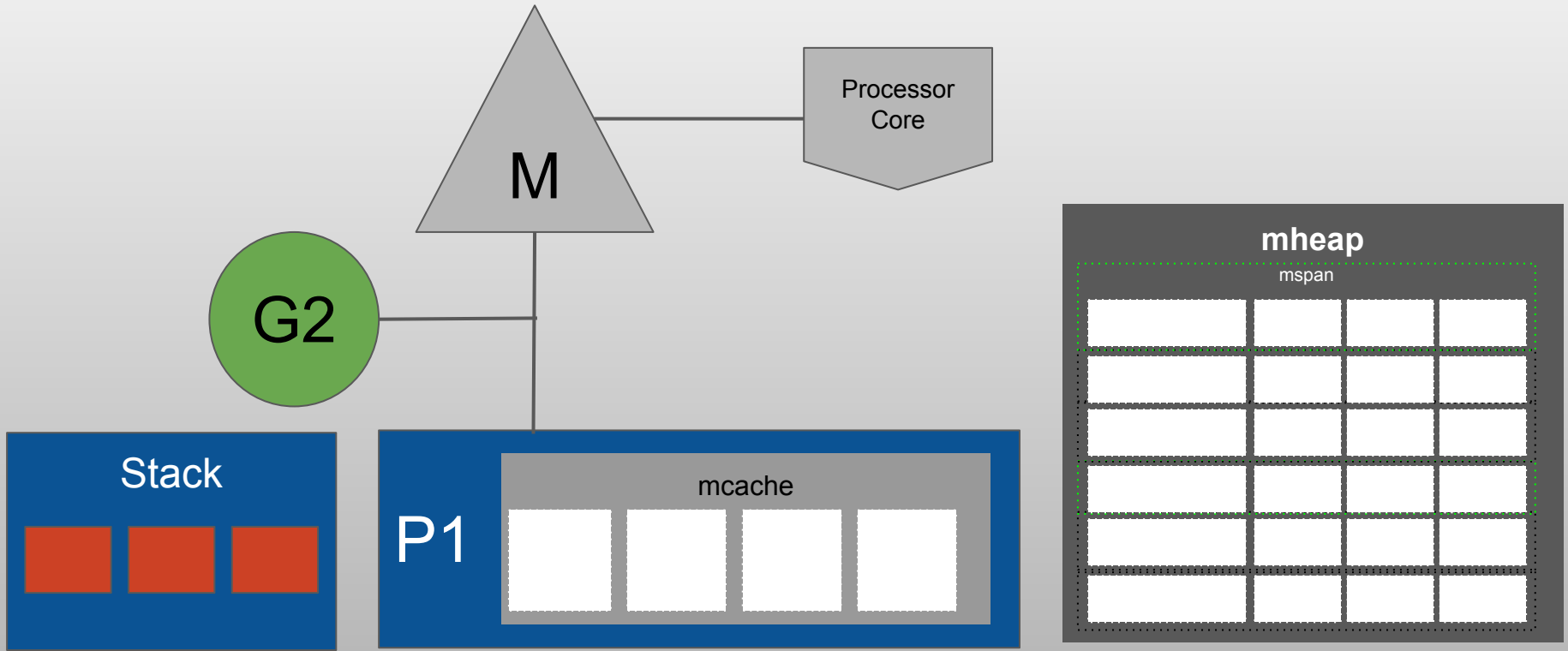


GC - Mark Setup

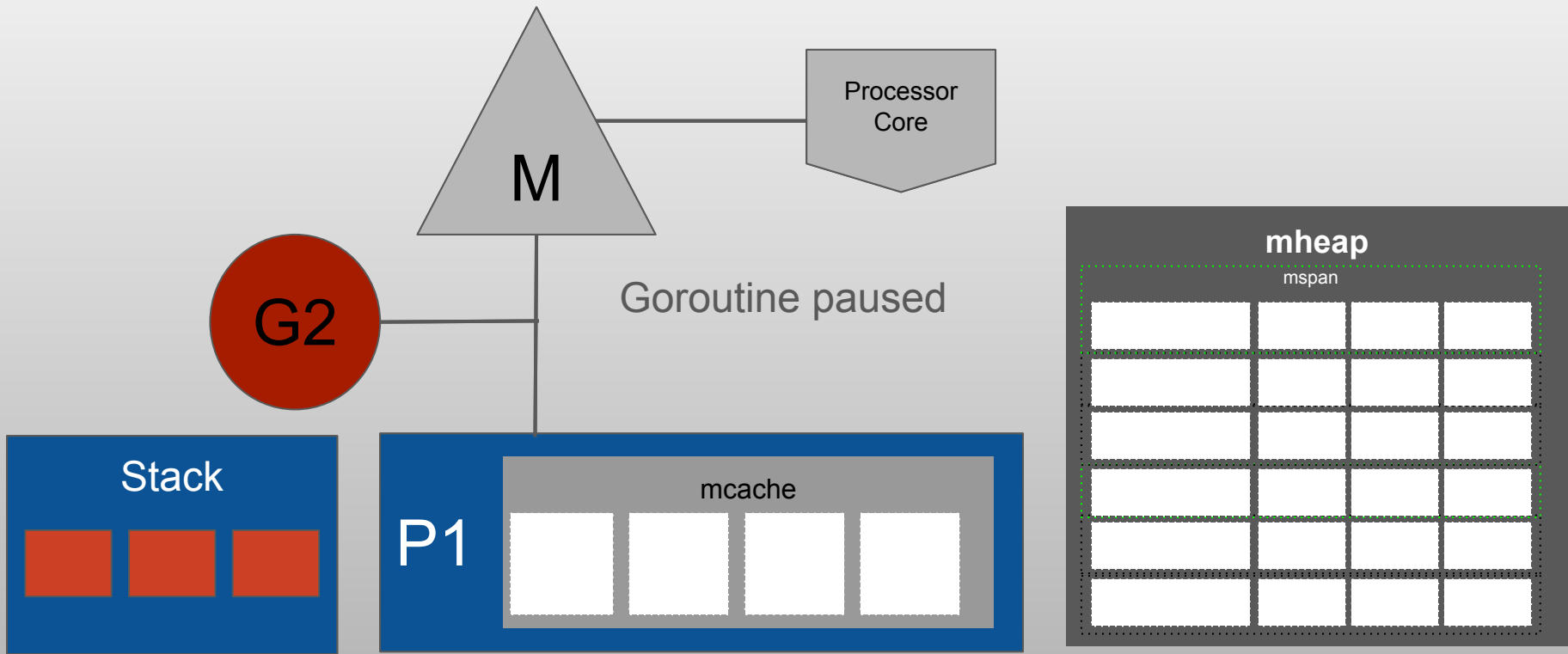


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange = Write barrier on
Red = Paused
Green = Running
Dashed Green = noscan mspan

Red = GC Root
Black = Alive
White = Unknown/Dead
Grey = Partial

GC - Mark Setup

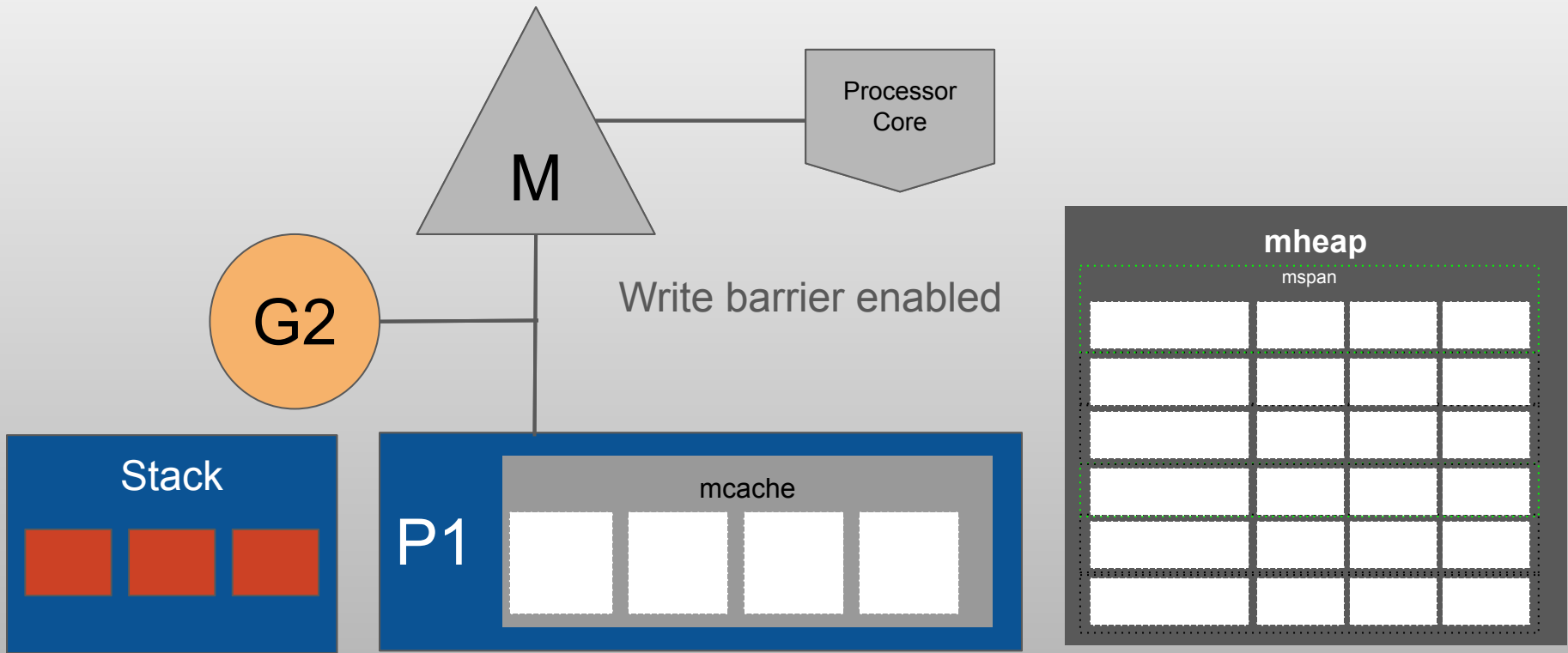


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange square = Write barrier on
Red square = Paused
Green square = Running
Dashed green border = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Mark Setup

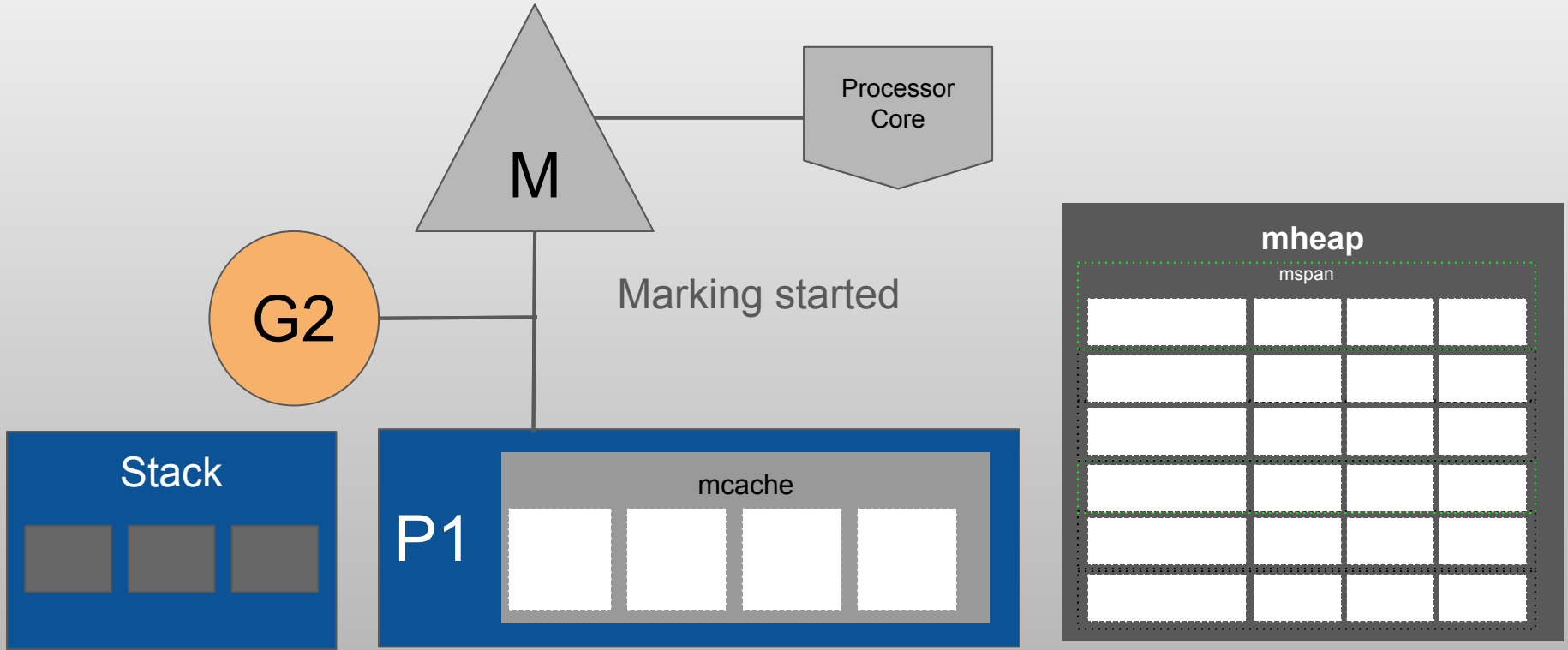


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange = Write barrier on
Red = Paused
Green = Running
Green dashed = noscan mspan

Red = GC Root
Black = Alive
White = Unknown/Dead
Grey = Partial

GC - Marking

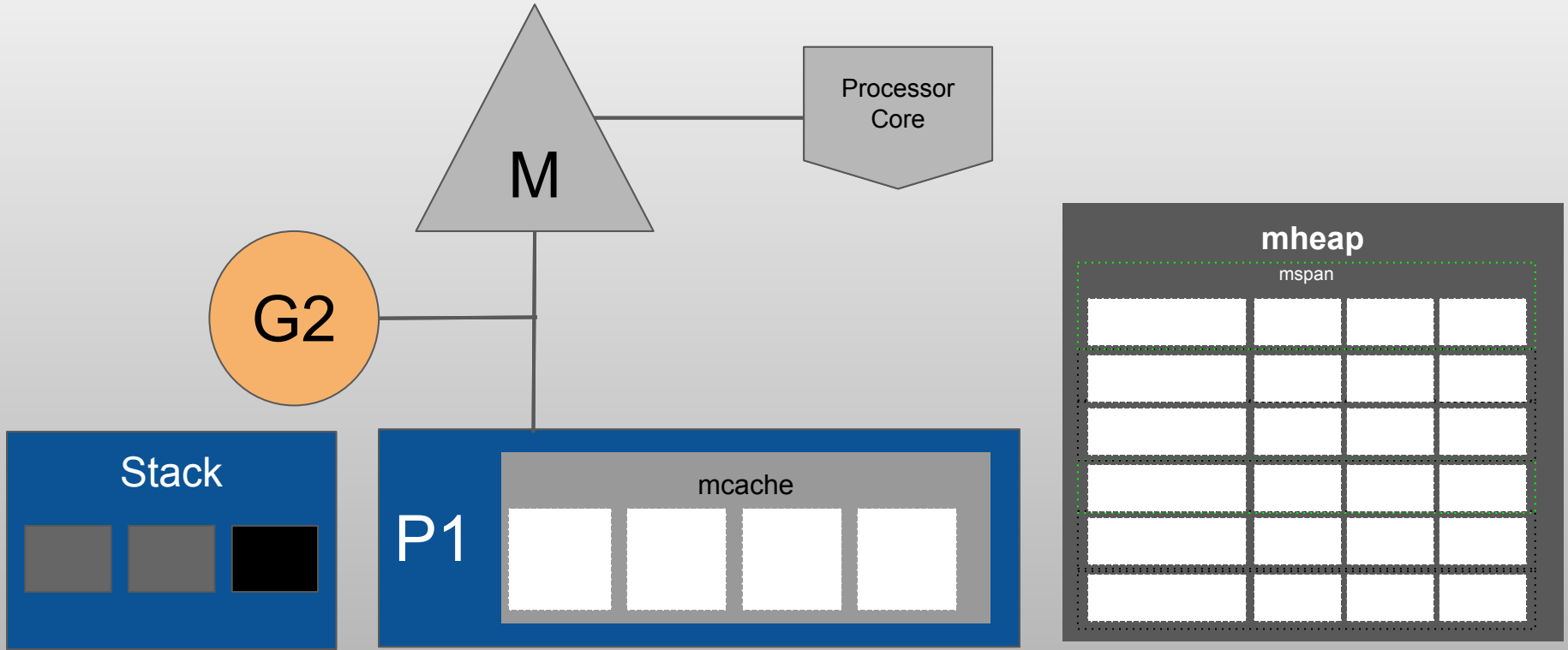


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange circle = Write barrier on
Red square = Paused
Green square = Running
Dashed green border = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Marking

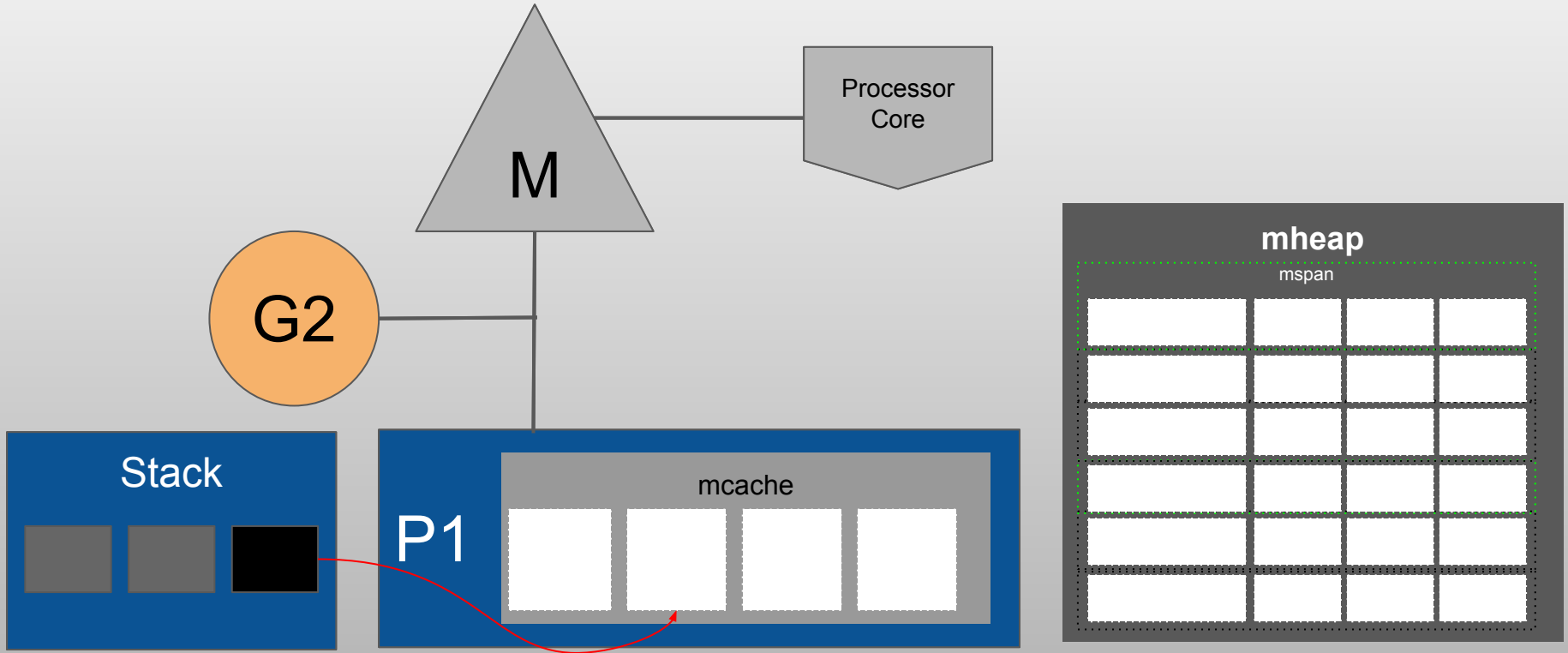


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange = Write barrier on
Red = Paused
Green = Running
Green dashed = noscan mspan

Red = GC Root
Black = Alive
White = Unknown/Dead
Grey = Partial

GC - Marking

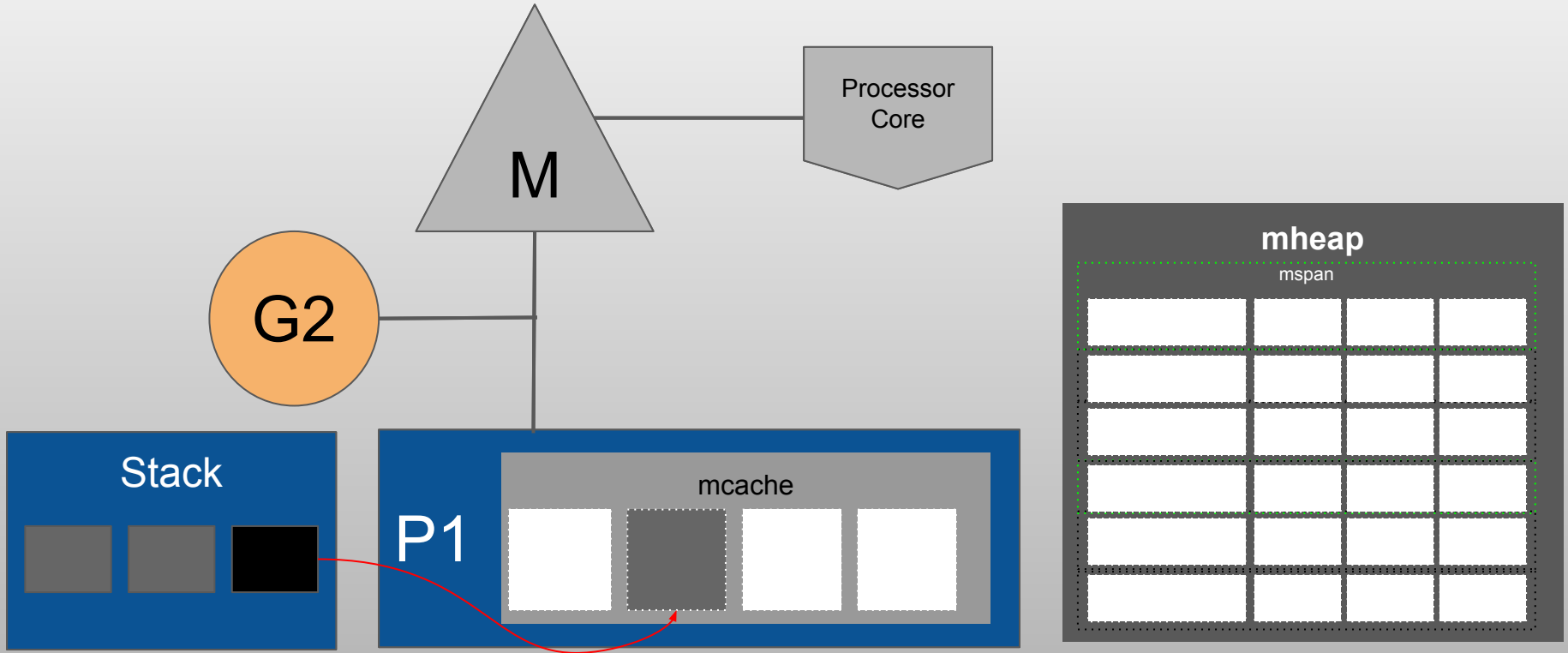


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange = Write barrier on
Red = Paused
Green = Running
Green dashed = noscan mspan

Red = GC Root
Black = Alive
White = Unknown/Dead
Grey = Partial

GC - Marking

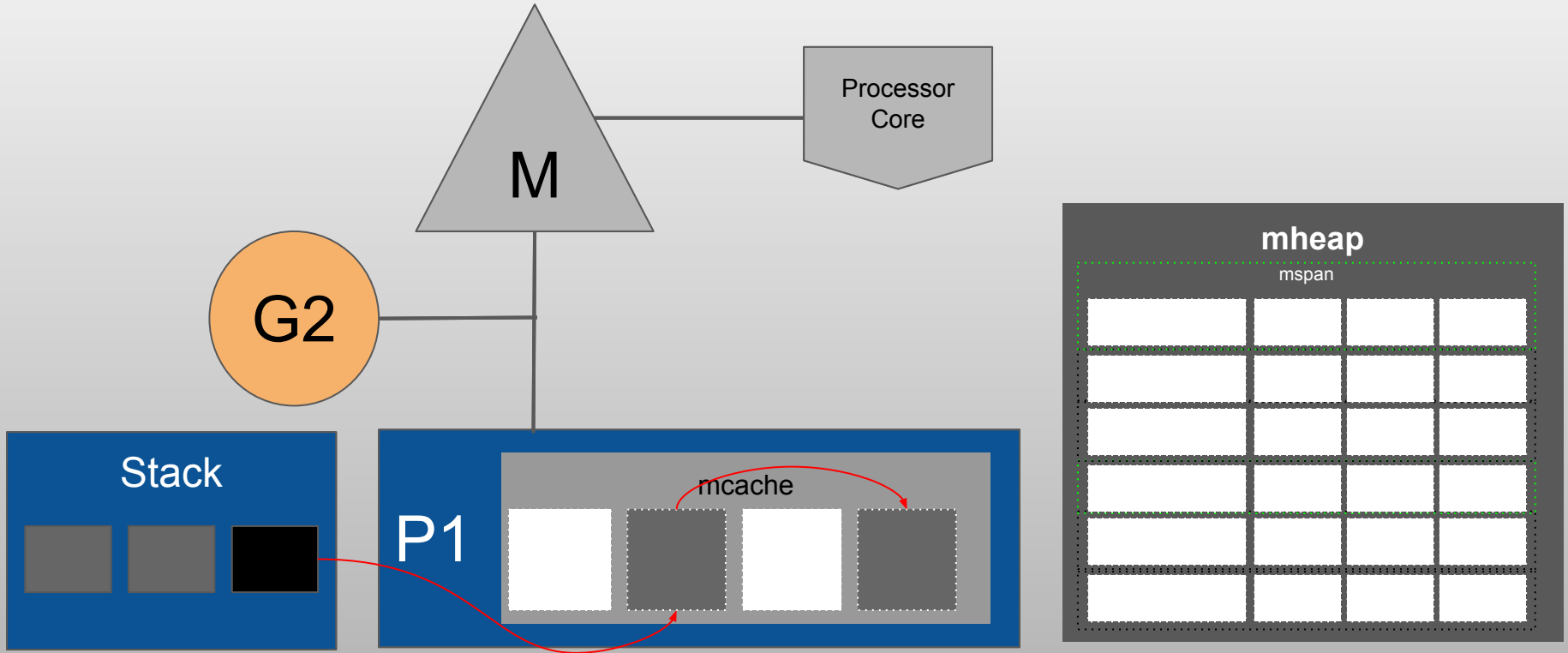


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange = Write barrier on
Red = Paused
Green = Running
Green dashed = noscan mspan

Red = GC Root
Black = Alive
White = Unknown/Dead
Grey = Partial

GC - Marking

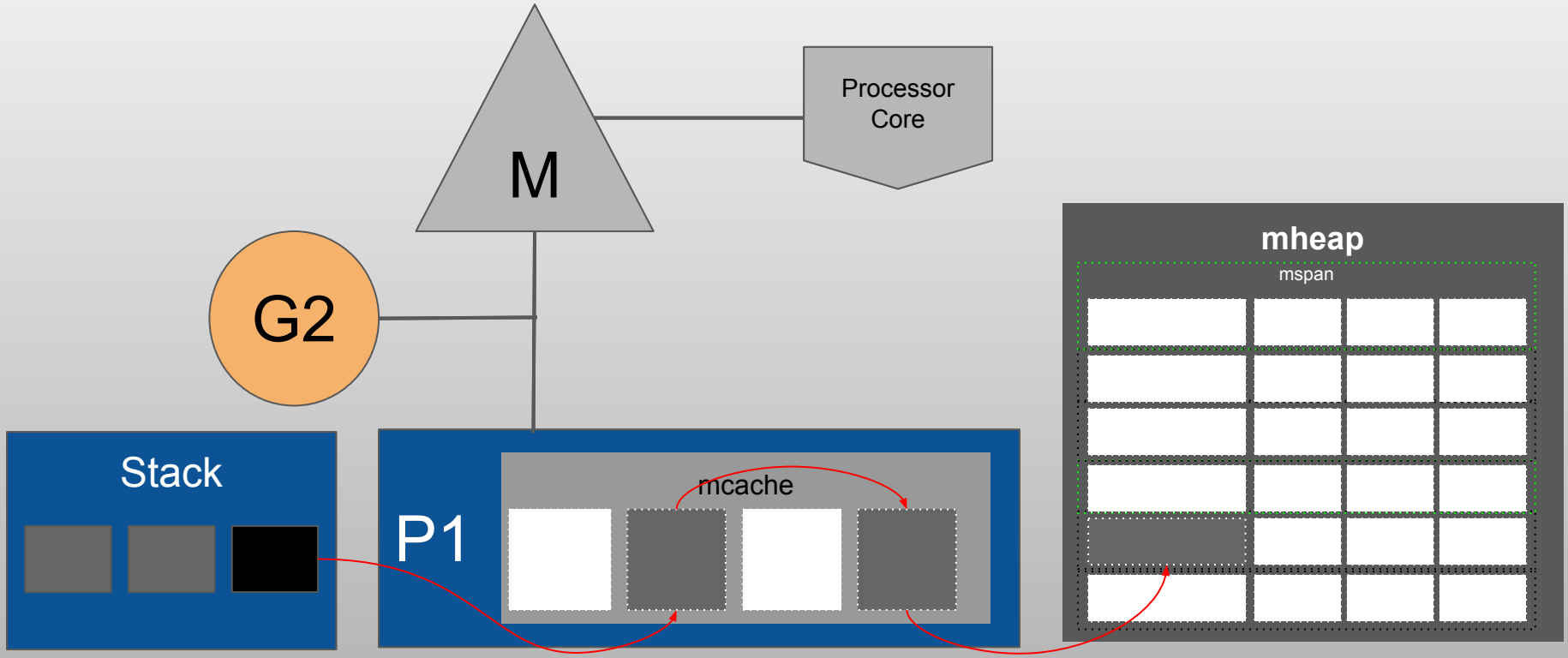


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange = Write barrier on
Red = Paused
Green = Running
Green dashed = noscan mspan

Red = GC Root
Black = Alive
White = Unknown/Dead
Grey = Partial

GC - Marking

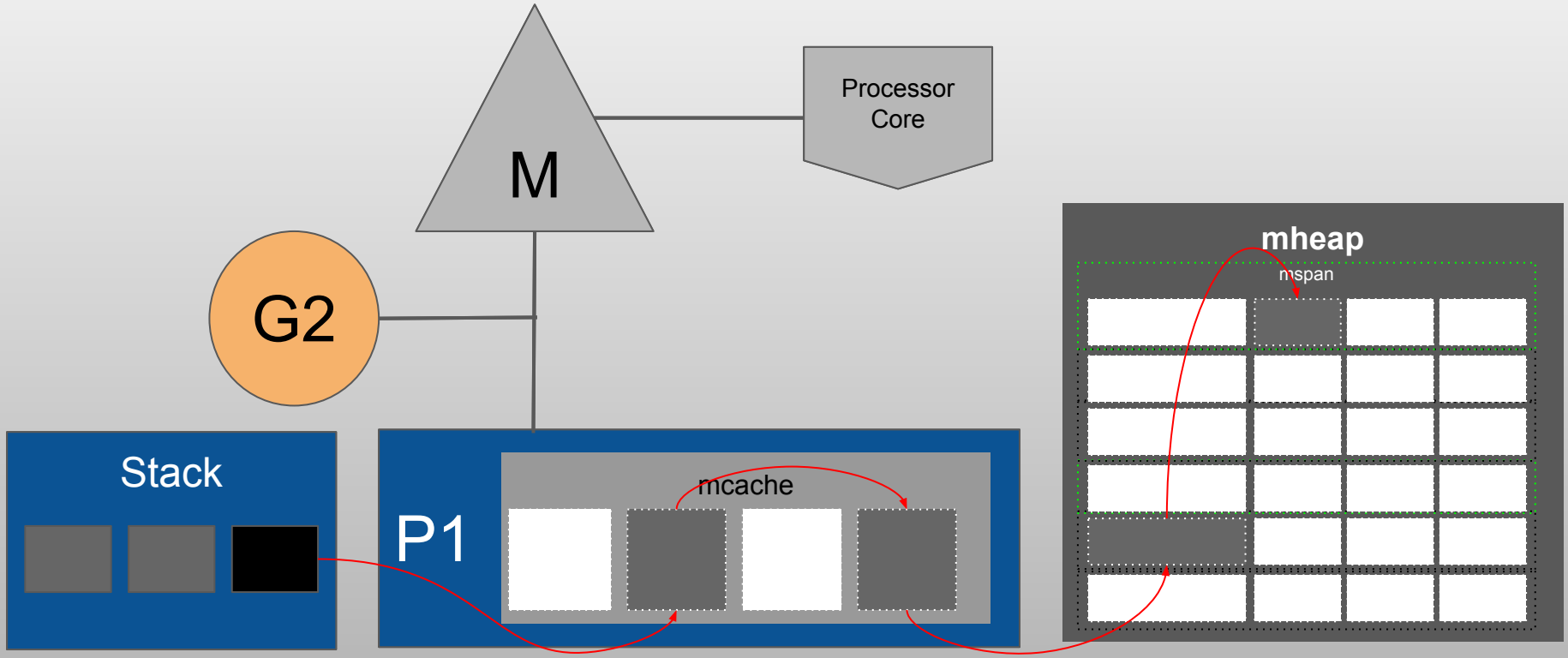


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange = Write barrier on
Red = Paused
Green = Running
Green dashed = noscan mspan

Red = GC Root
Black = Alive
White = Unknown/Dead
Grey = Partial

GC - Marking

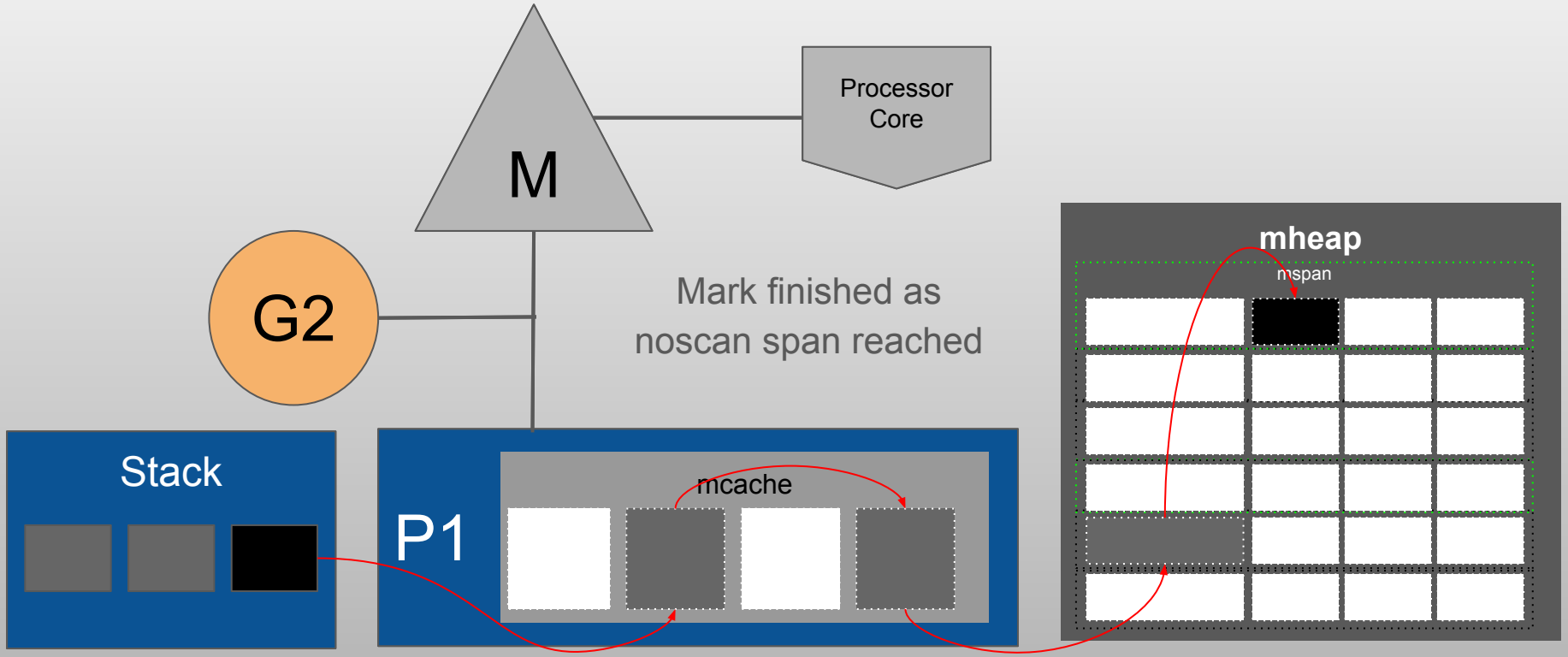


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange = Write barrier on
Red = Paused
Green = Running
Green dashed = noscan mspan

Red = GC Root
Black = Alive
White = Unknown/Dead
Grey = Partial

GC - Marking

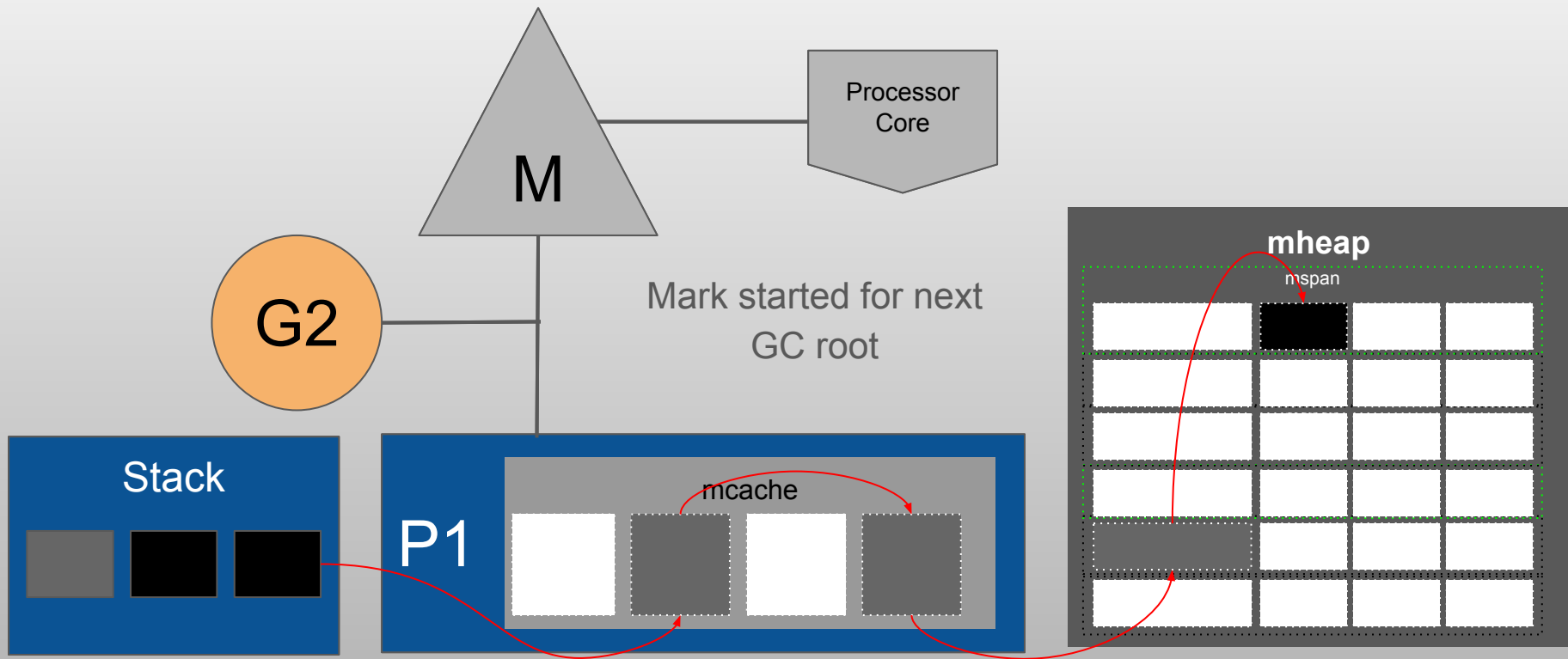


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange square = Write barrier on
Red square = Paused
Green square = Running
Grey dashed square = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Marking

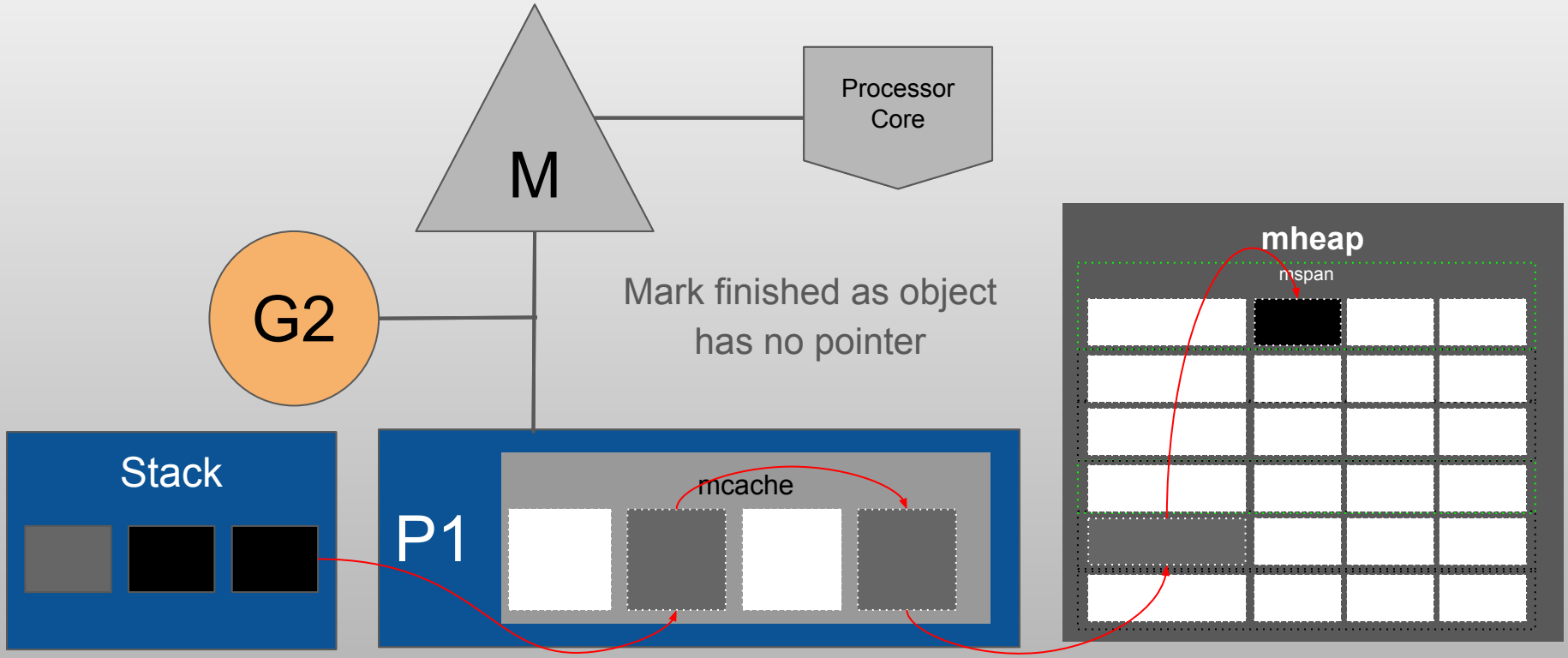


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange square = Write barrier on
Red square = Paused
Green square = Running
Grey square with dashed border = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Marking

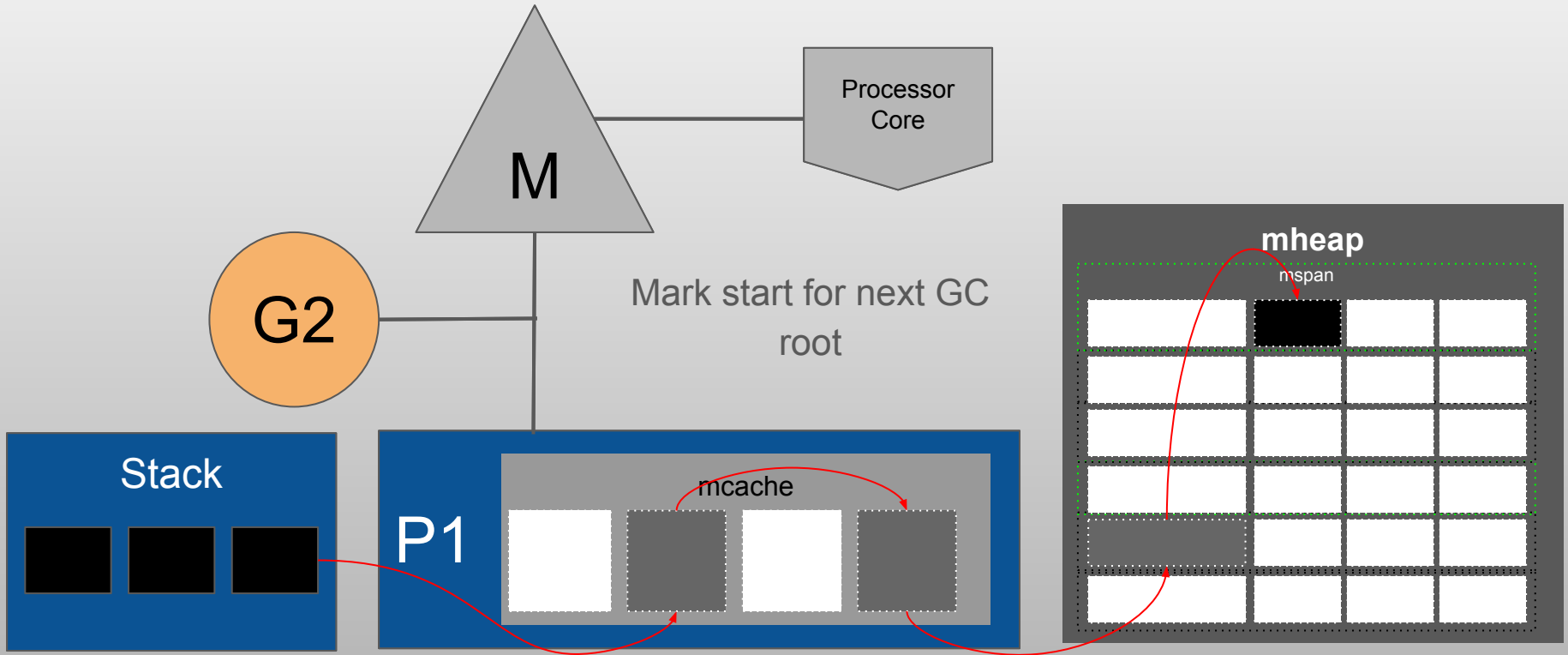


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange circle = Write barrier on
Red square = Paused
Green dashed border = Running
Grey dashed border = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Marking

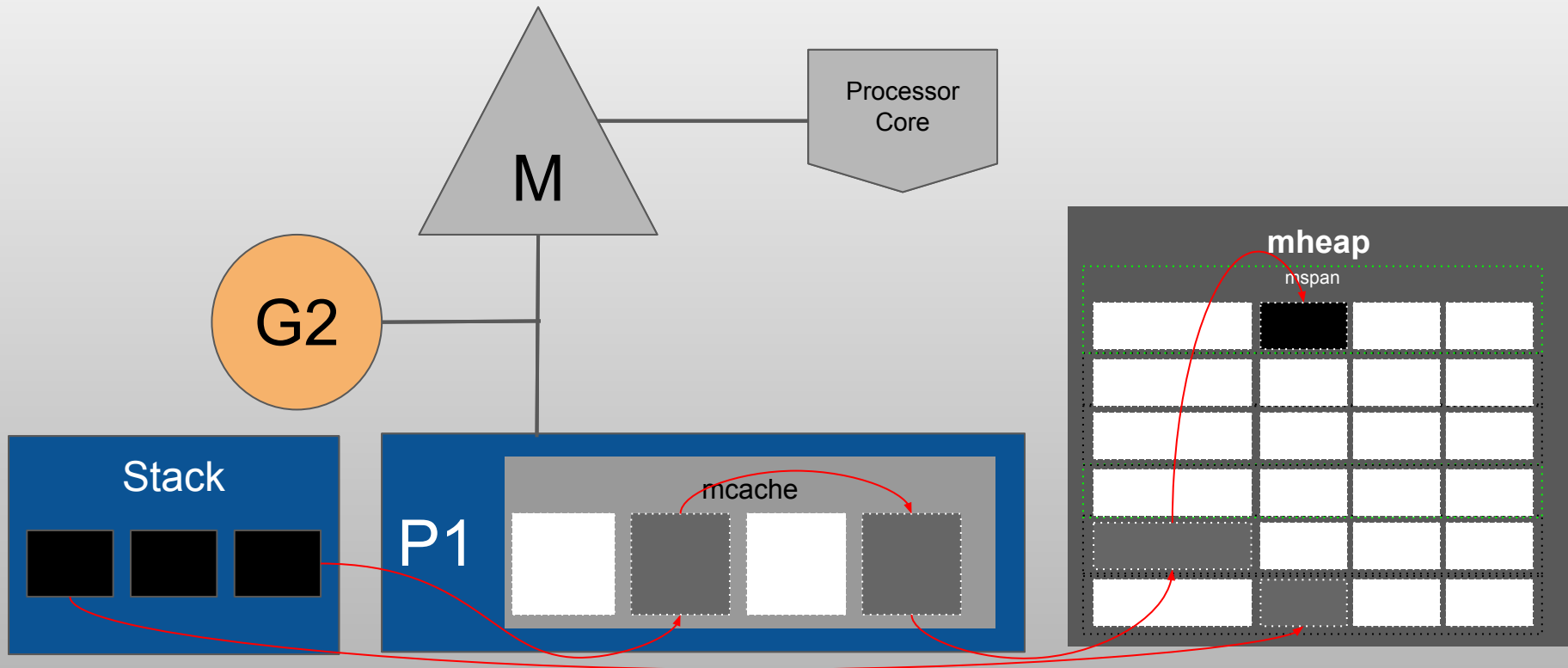


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange = Write barrier on
Red = Paused
Green = Running
Grey dashed = noscan mspan

Red = GC Root
Black = Alive
White = Unknown/Dead
Grey = Partial

GC - Marking

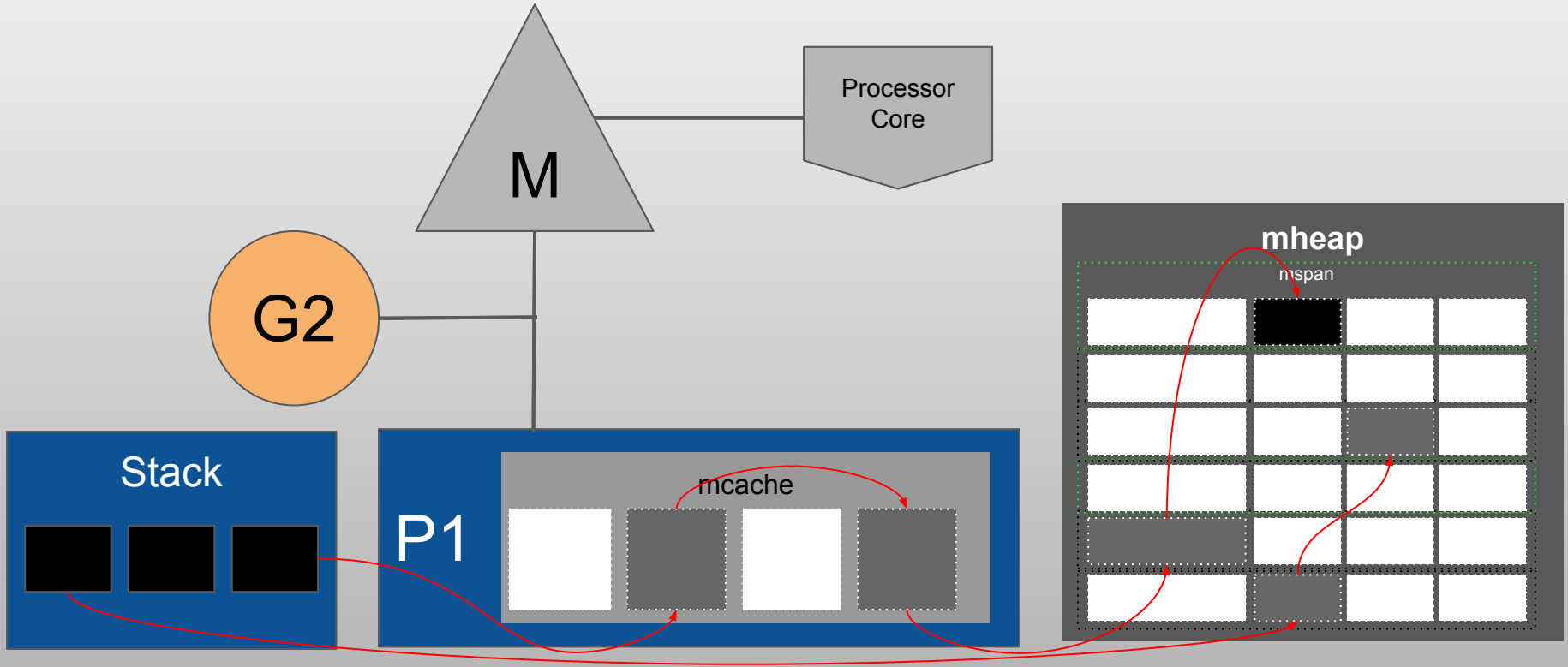


P = Logical Processor per Hardware Thread
 M = Machine per OS Thread
 G = Goroutine (Coroutine)

= Write barrier on
 = Paused
 = Running
 = noscan mspan

= GC Root
 = Alive
 = Unknown/Dead
 = Partial

GC - Marking

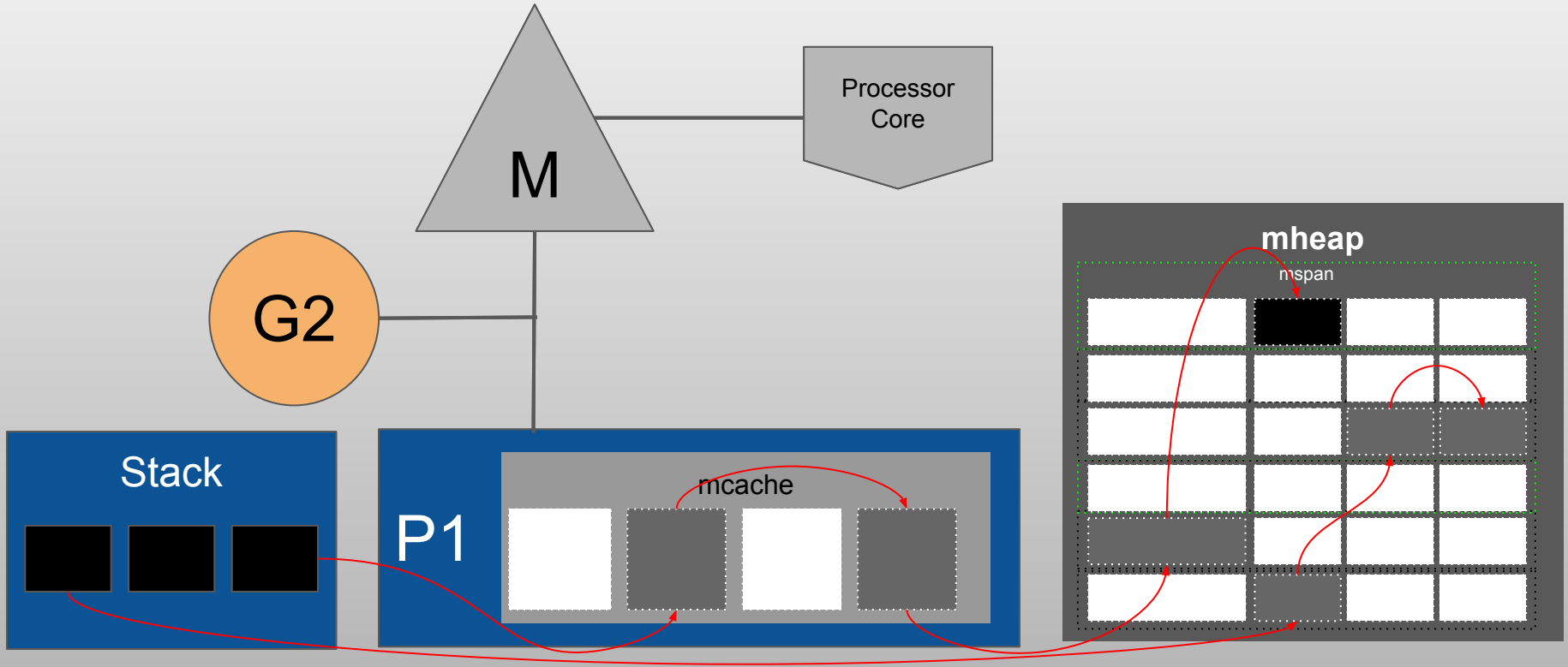


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange = Write barrier on
Red = Paused
Green = Running
Green dashed = noscan mspan

Red = GC Root
Black = Alive
White = Unknown/Dead
Grey = Partial

GC - Marking

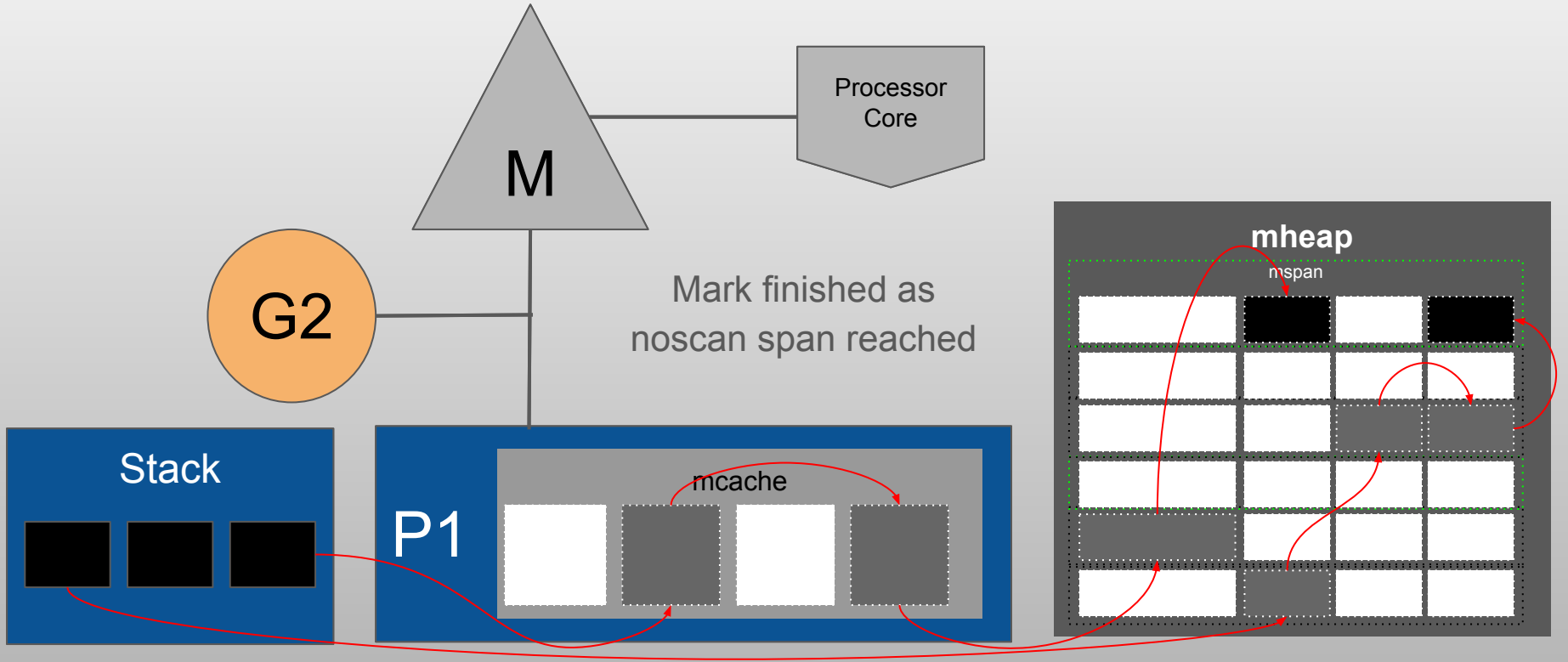


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange = Write barrier on
Red = Paused
Green = Running
Green dashed = noscan mspan

Red = GC Root
Black = Alive
White = Unknown/Dead
Grey = Partial

GC - Marking

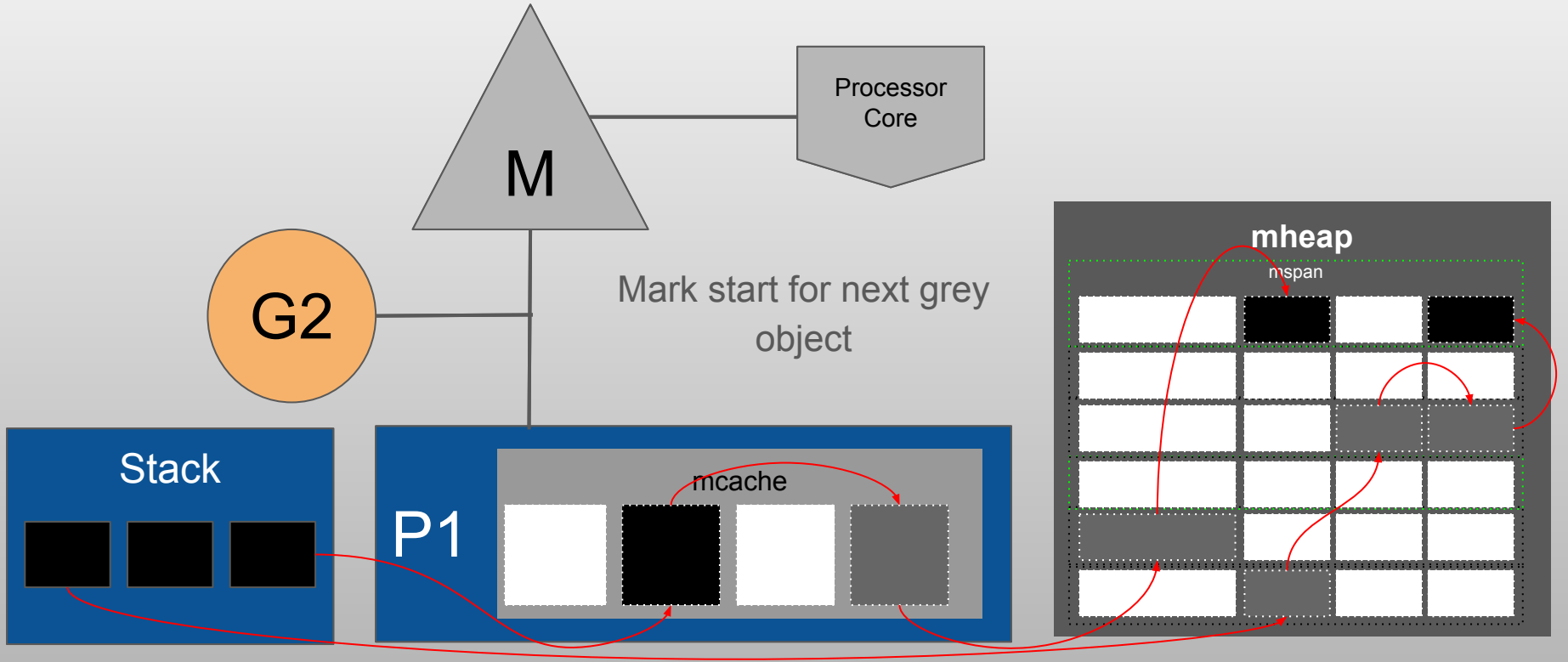


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange circle = Write barrier on
Red square = Paused
Green dashed border = Running
Green dashed border = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Marking

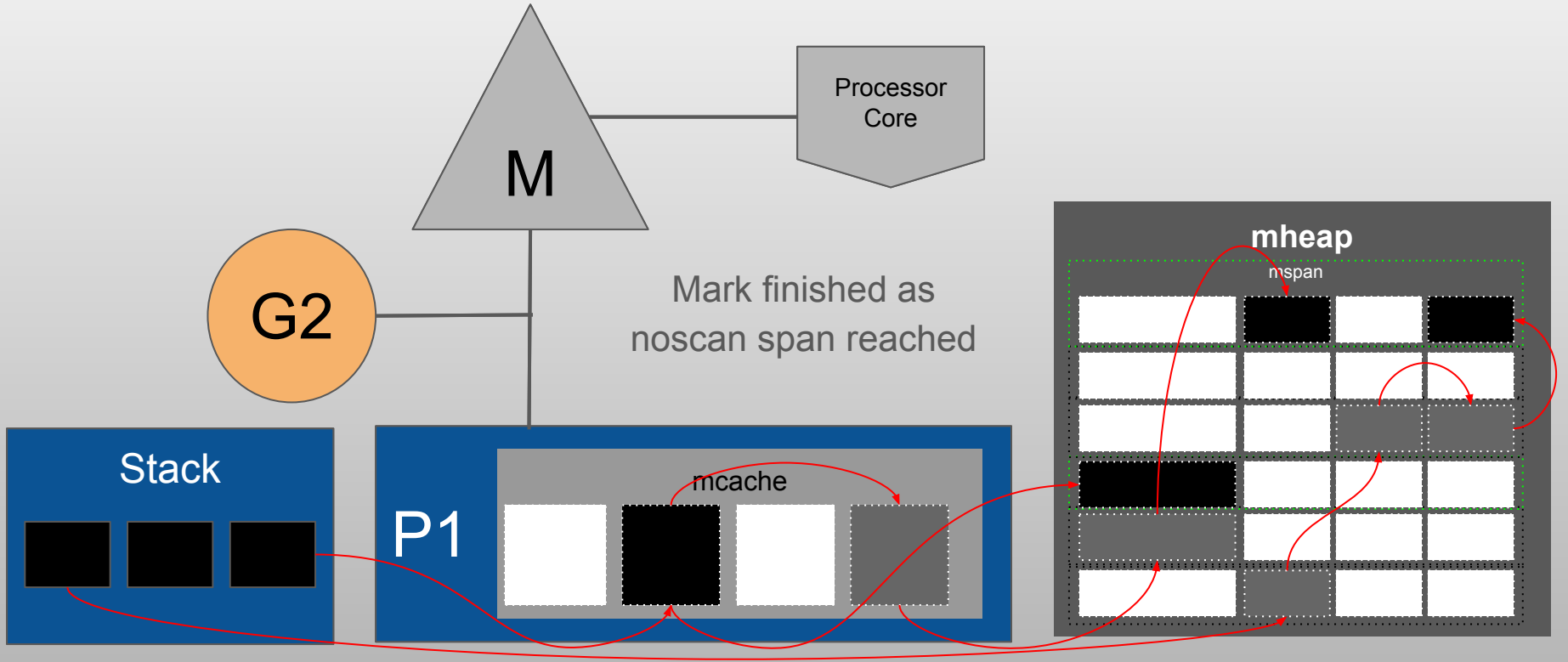


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange circle = Write barrier on
Red square = Paused
Green dashed border = Running
Green dashed border = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Marking

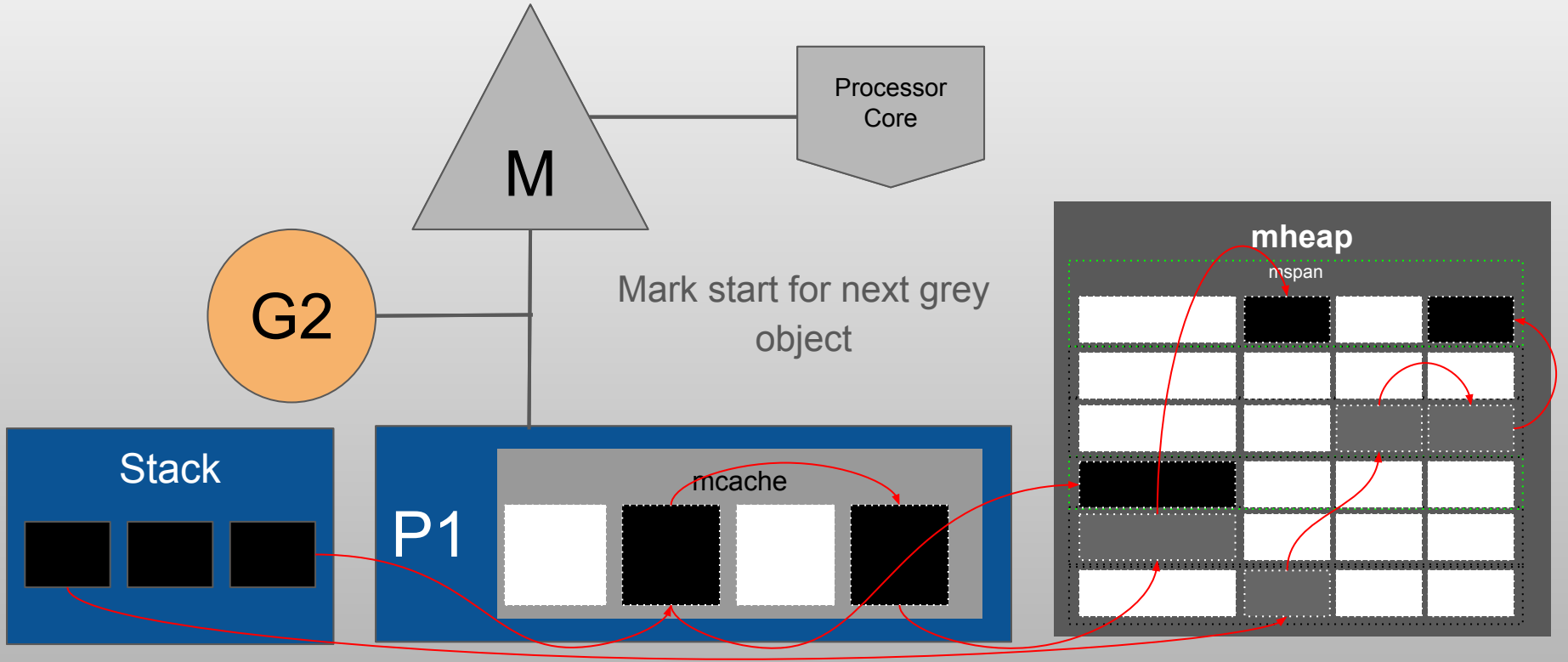


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange circle = Write barrier on
Red square = Paused
Green dashed box = Running
Green dashed box = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Marking

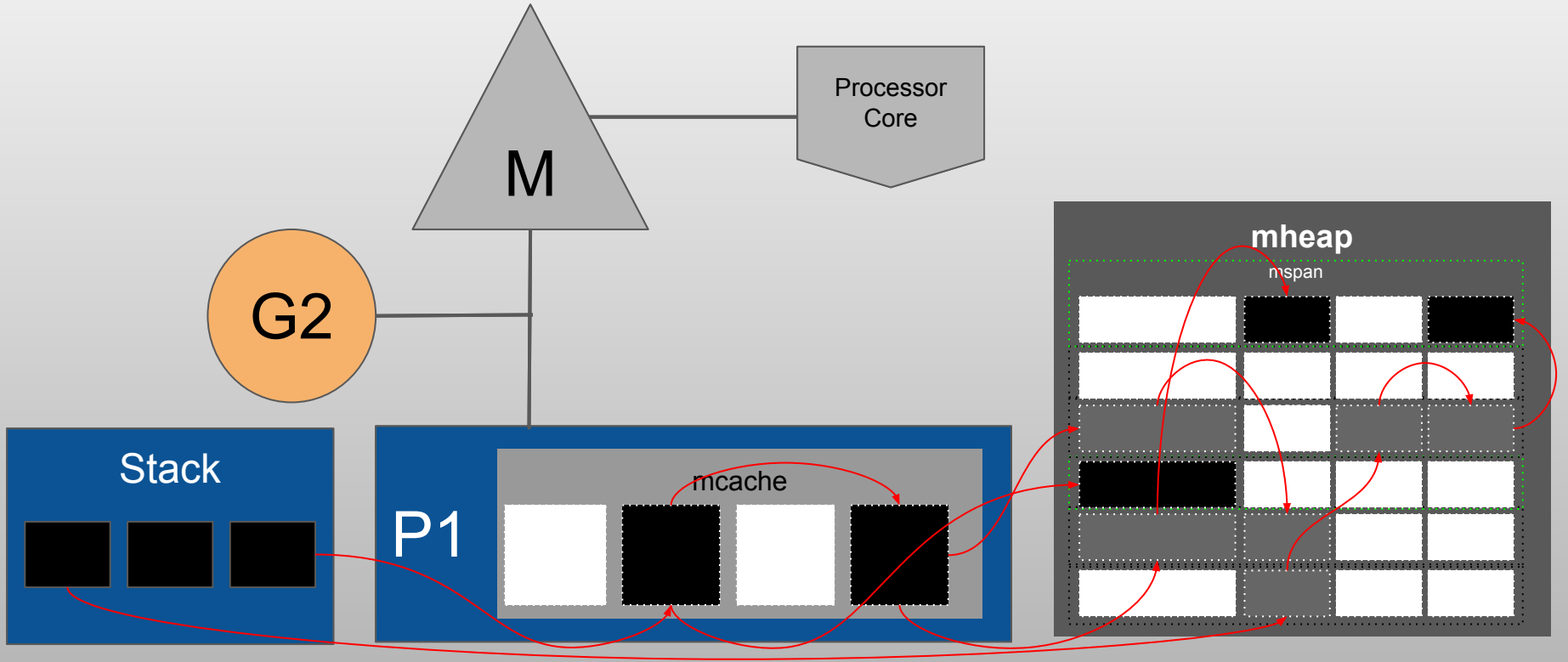


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange circle = Write barrier on
Red square = Paused
Green dashed border = Running
Grey dashed border = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Marking

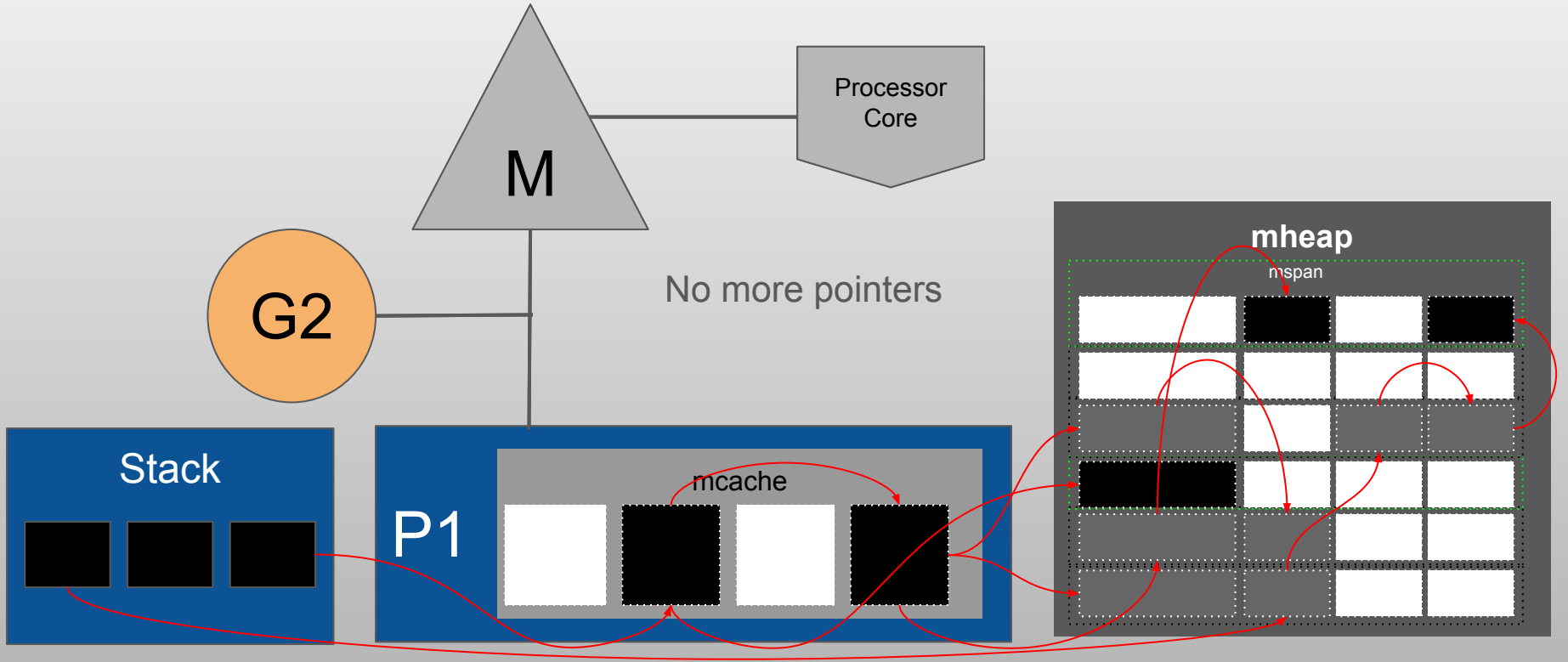


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange circle = Write barrier on
Red square = Paused
Green dashed border = Running
Grey dashed border = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Marking

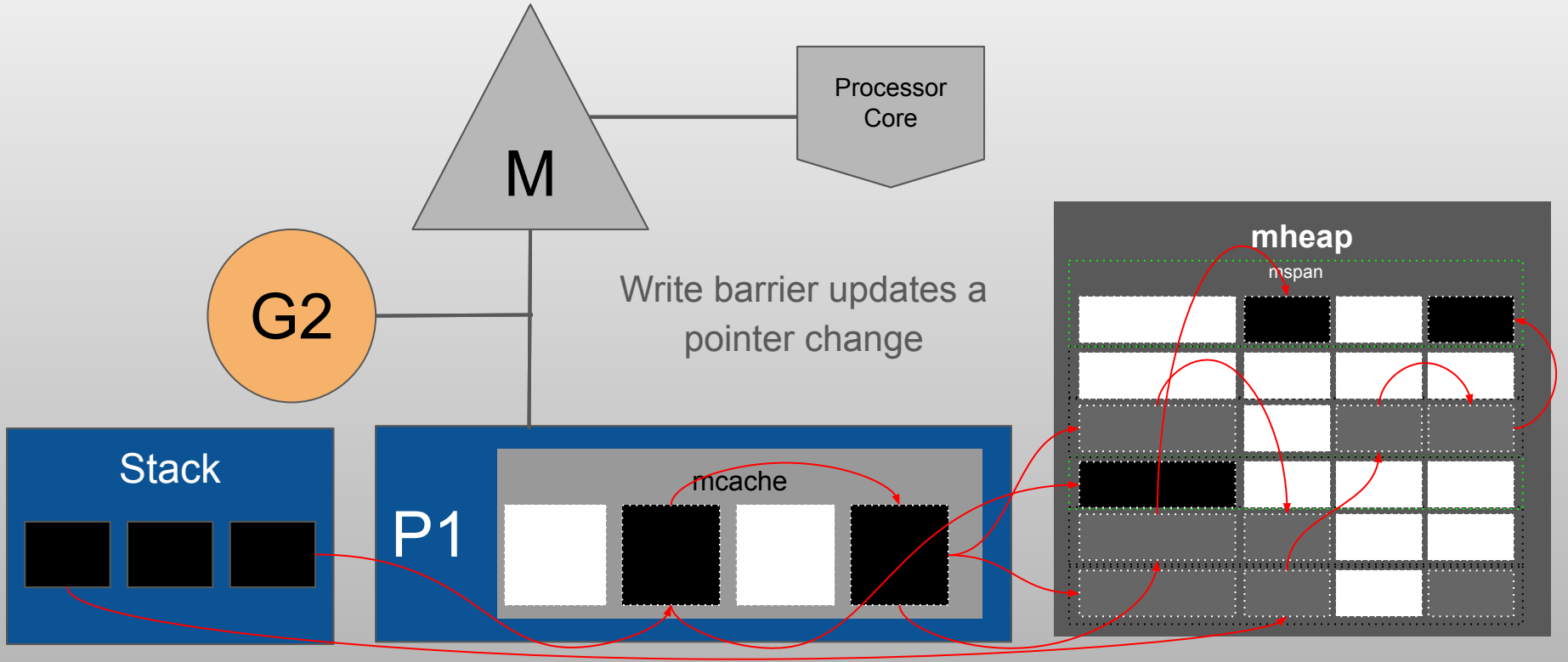


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange = Write barrier on
Red = Paused
Green = Running
Grey dashed = noscan mspan

Red = GC Root
Black = Alive
White = Unknown/Dead
Grey = Partial

GC - Marking

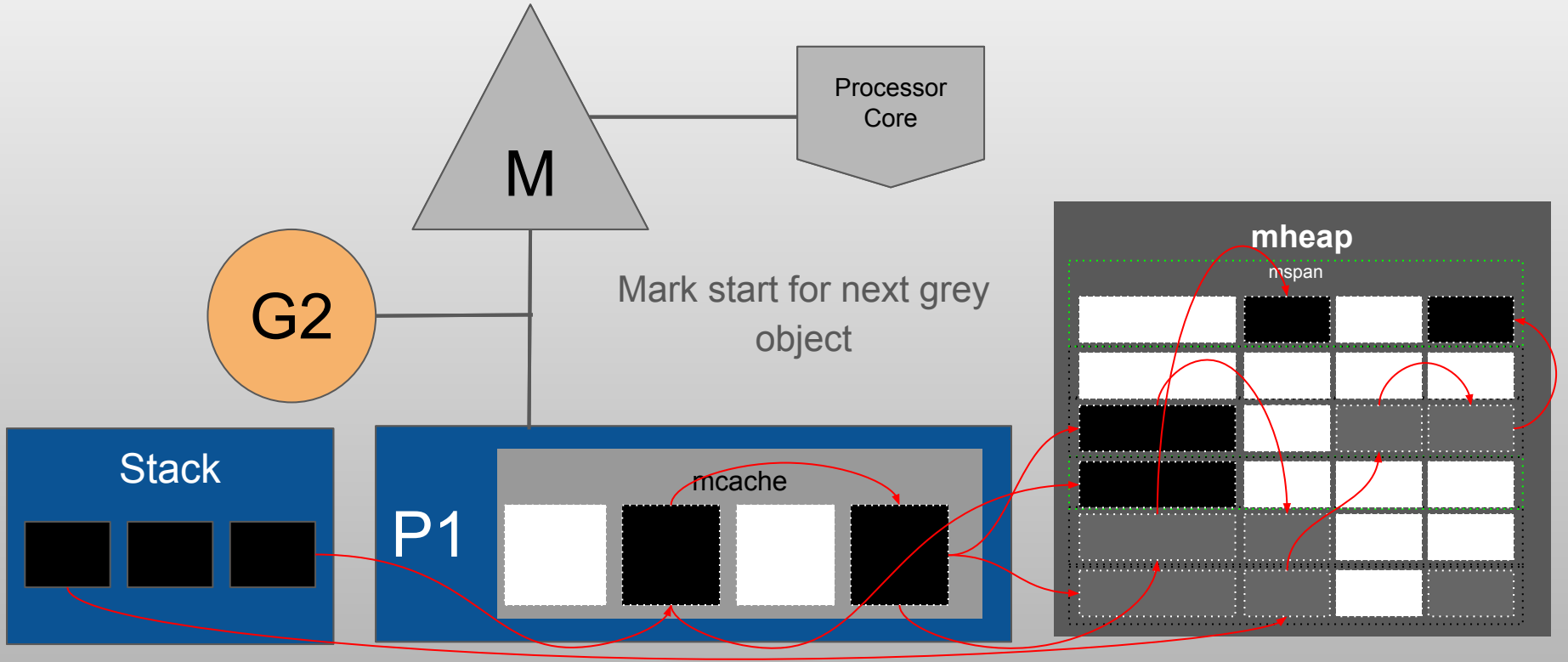


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange circle = Write barrier on
Red square = Paused
Green dashed box = Running
Grey dashed box = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Marking

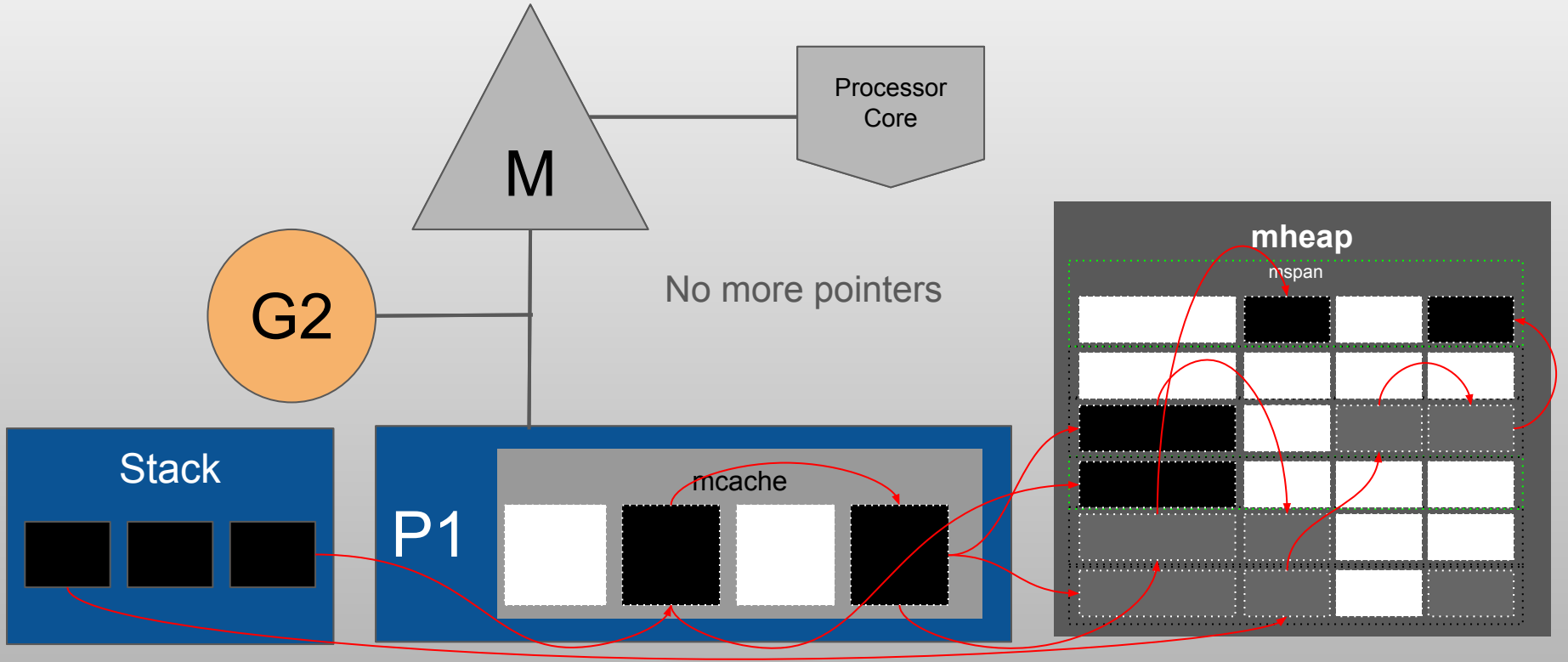


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange circle = Write barrier on
Red square = Paused
Green dashed box = Running
Grey dashed box = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Marking

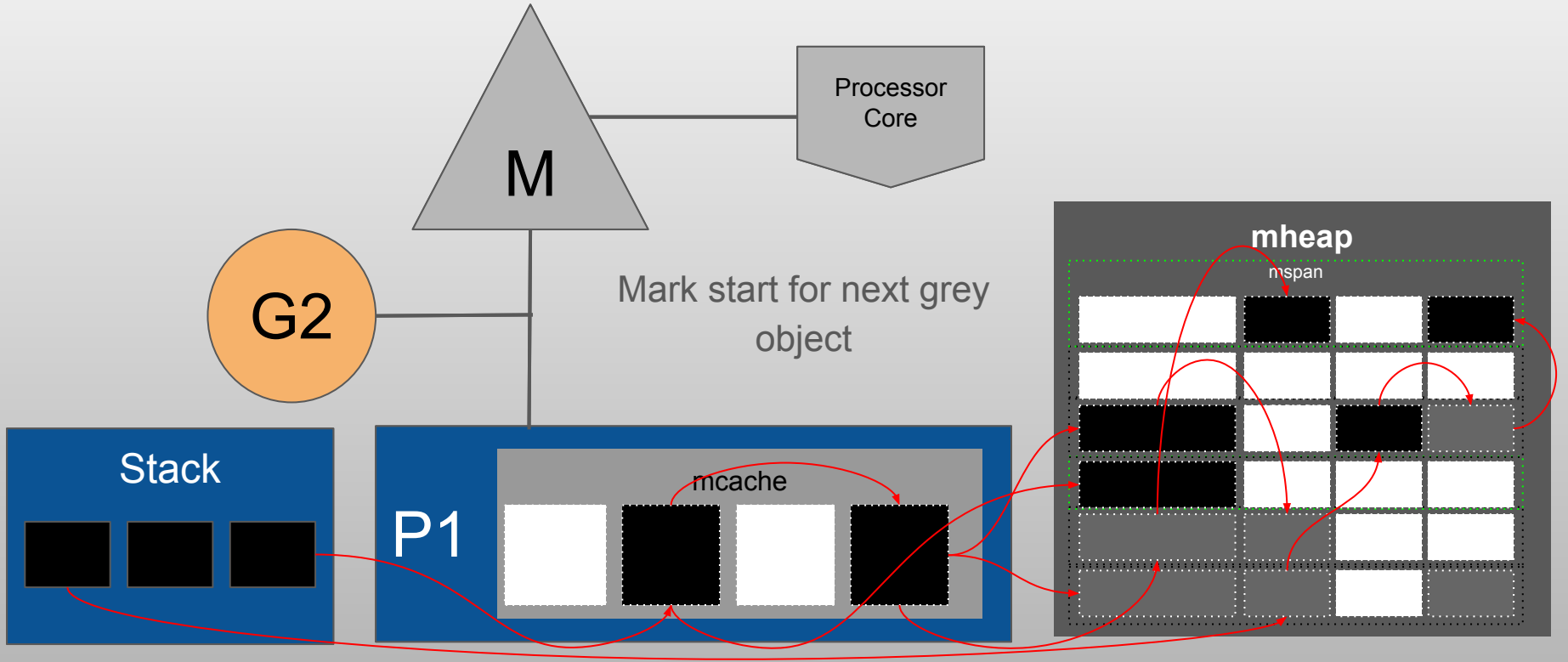


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange circle = Write barrier on
Red square = Paused
Green dashed box = Running
Grey dashed box = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Marking

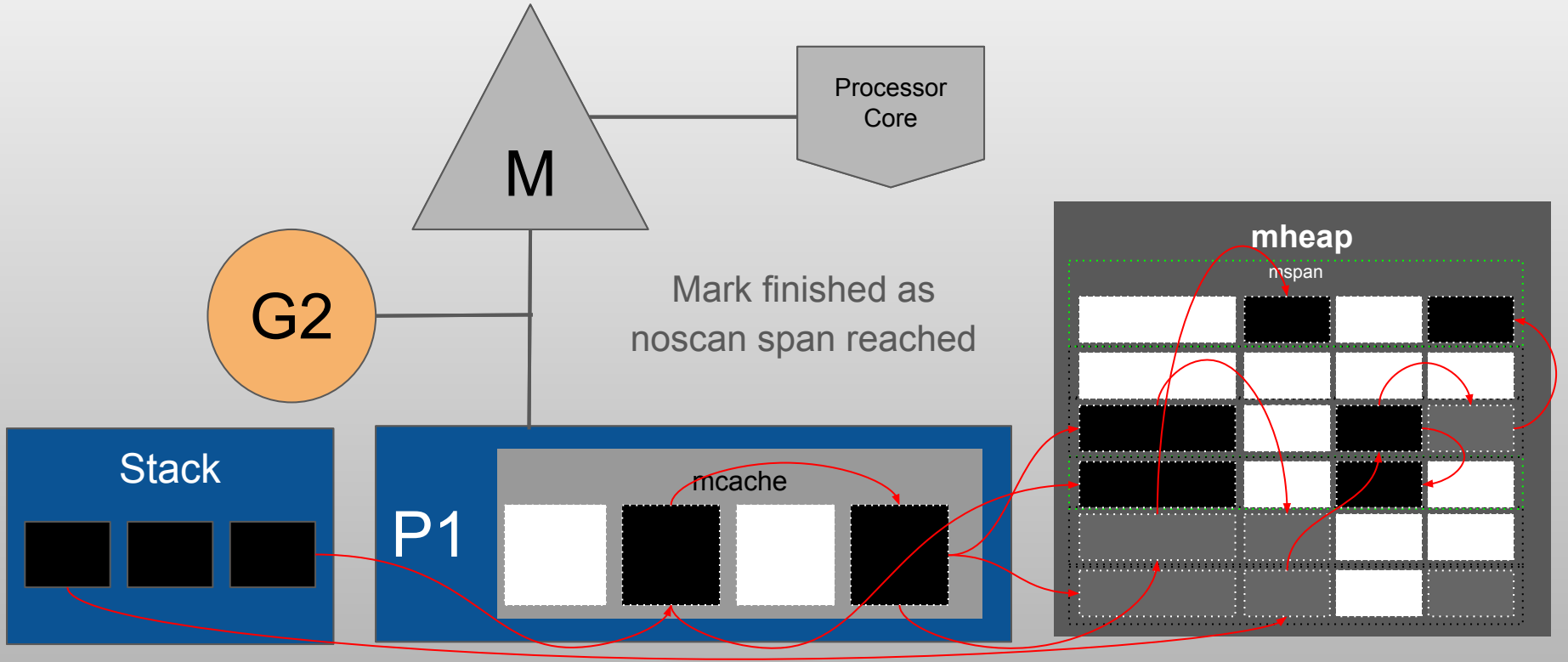


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange circle = Write barrier on
Red square = Paused
Green dashed box = Running
Grey dashed box = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Marking

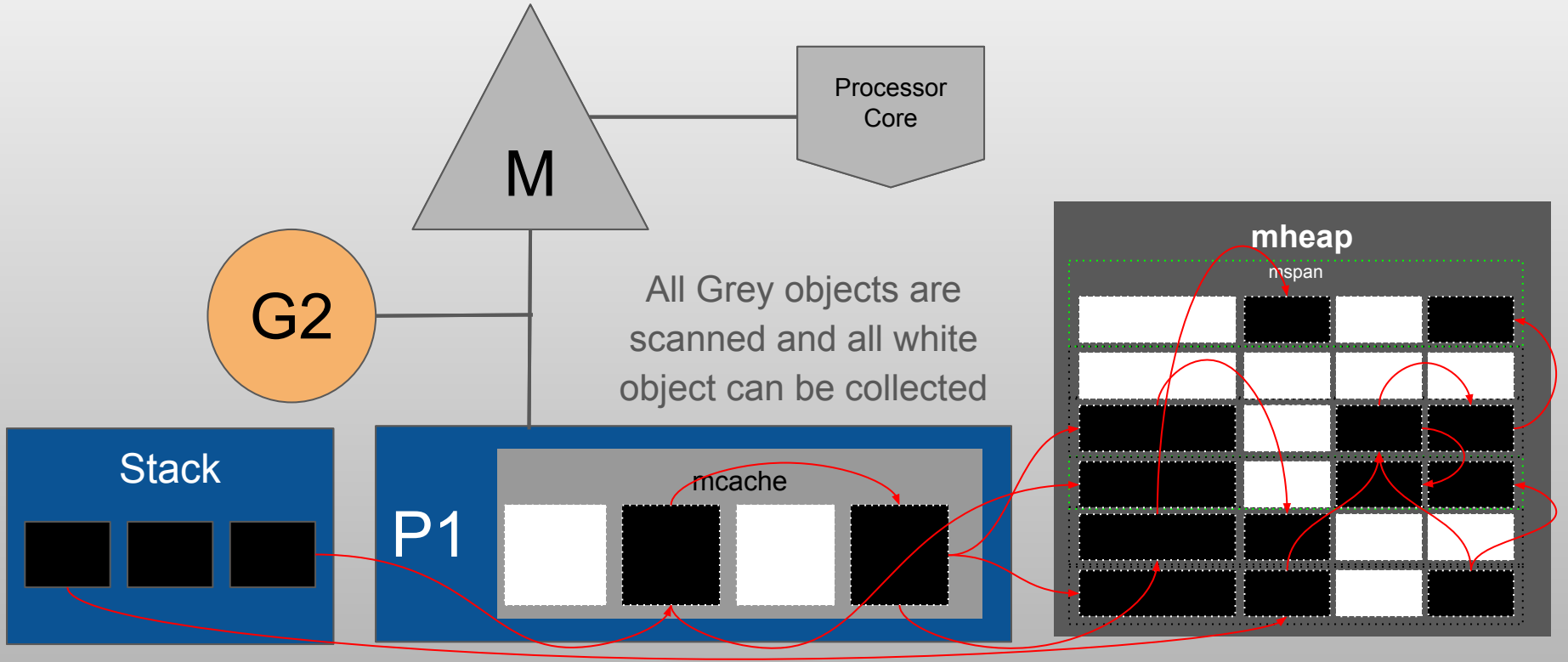


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange square = Write barrier on
Red square = Paused
Green square = Running
Green dashed box = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Marking

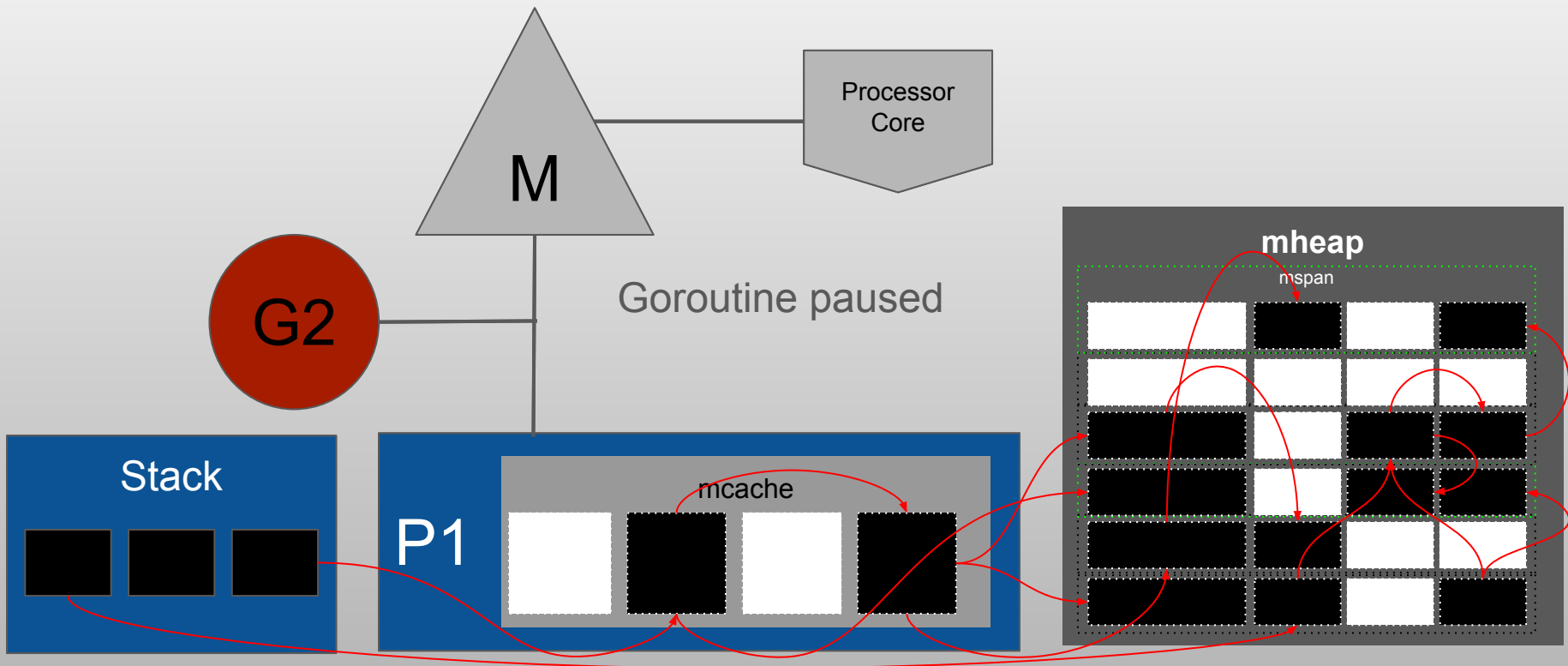


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange = Write barrier on
Red = Paused
Green = Running
Grey dashed = noscan mspan

Red = GC Root
Black = Alive
White = Unknown/Dead
Grey = Partial

GC - Mark Terminate

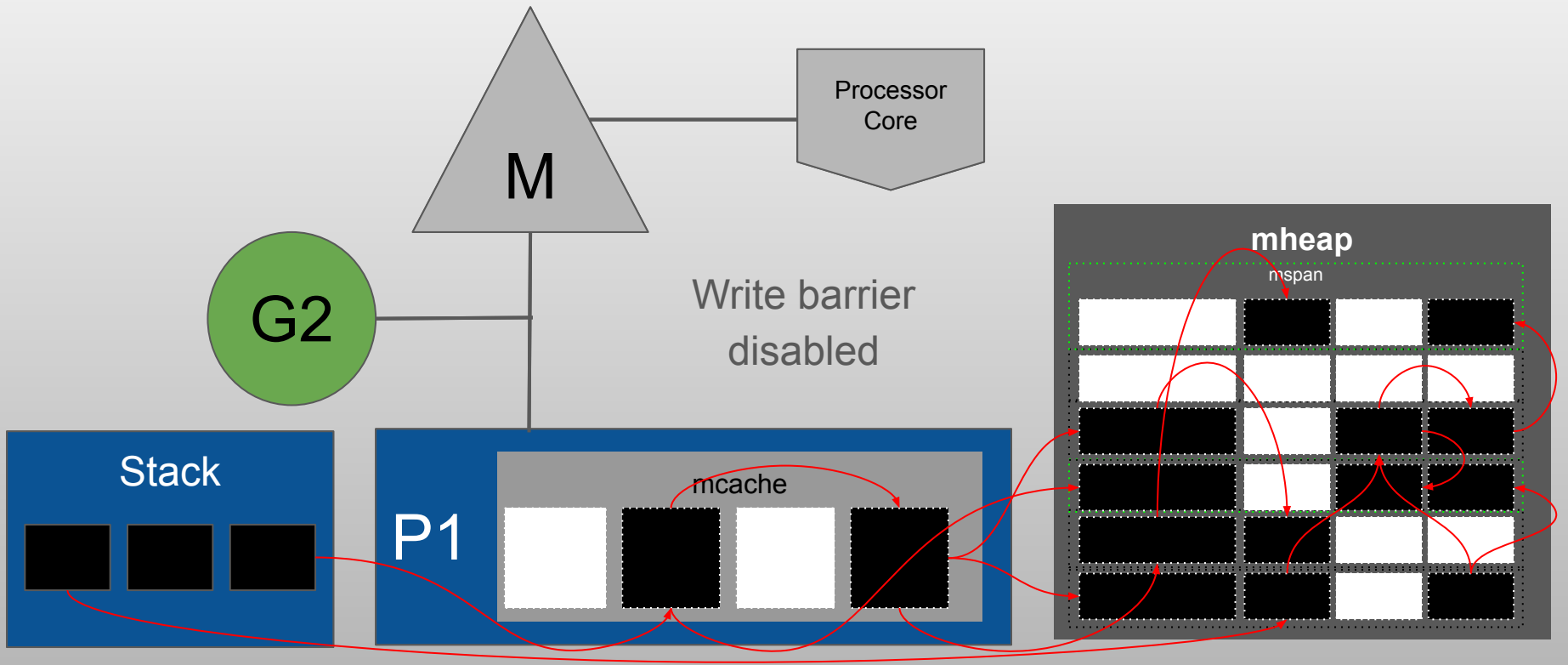


P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange square = Write barrier on
Red square = Paused
Green square = Running
Green dashed box = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial

GC - Mark Terminate



P = Logical Processor per Hardware Thread
M = Machine per OS Thread
G = Goroutine (Coroutine)

Orange square = Write barrier on
Red square = Paused
Green circle = Running
Dashed green border = noscan mspan

Red square = GC Root
Black square = Alive
White square = Unknown/Dead
Grey square = Partial