

Data worksheet—structure type

14 Oct 2010

Describe the data:

```
; lazer is a structure containing:
   STRUCTURE TYPE

; - posx ( XCoord of lazer )
   PART 1 NAME      PART 1 TYPE, INTERPRETATION

; - posy ( YCoord of lazer )
   PART 2 NAME      PART 2 TYPE, INTERPRETATION
                        Determine if the lazer
; - touched? ( touched an alien )
   PART 3 NAME      PART 3 TYPE, INTERPRETATION

...

```

```
(define-struct lazer
  STRUCTURE TYPE

  ( posx posy touched? ... ) )
   PART 1 NAME PART 2 NAME PART 3 NAME

```

; Examples:

```
(define l-middle-center ; Visible lazer in the middle center
  EXAMPLE NAME          DESCRIPTION/EXPLANATION

  (make- lazer X_CENTER Y_MIDDLE true ... ) )
        STRUCTURE TYPE VALUE 1 VALUE 2 VALUE 3

(define l-top-left ; Visible lazer on the top left edge
  EXAMPLE NAME          DESCRIPTION/EXPLANATION

  (make- lazer X_LEFT Y_TOP true ... ) )
        STRUCTURE TYPE VALUE 1 VALUE 2 VALUE 3

(define l-touched ; Invisible lazer (on the top left)
  EXAMPLE NAME          DESCRIPTION/EXPLANATION

  (make- lazer 0 0 false ... ) )
        STRUCTURE TYPE VALUE 1 VALUE 2 VALUE 3

```