Example: Alignment

```
.data
                 0x0,0x1,0x2,0x3,0x4,0x5,0x6,0x7,0x8
        .byte
X:
                          # ALIGNED?
.text
la
        $t0,x
        $t1,0($t0)
lw
        $t1,1($t0)
                          #
lh
lw
        $t1,3($t0)
                          #
        $t0,$t0,-3
addi
        $t1,6($t0)
lh
                          #
```

Example: Alignment

.data		
X:	.byte $0x0,0x$	1,0x2,0x3,0x4,0x5,0x6,0x7,0x8
.text		# ALIGNED?
la	\$t0,x	
lw	\$t1,0(\$t0)	# YES
lh	\$t1,1(\$t0)	# NO
lw	\$t1,3(\$t0)	# NO
addi	\$t0,\$t0,-3	
lh	\$t1,7(\$t0)	# YES (7+-3=4)

Example: Endianness

/ low address						
.data						
X:	.byte 0x	10,0x21,0x32,0x43				
.text						
la	\$s0,x	# BIG ENDIAN	LITTLE ENDIAN			
lw	\$t0,0(\$s0)	#				
lh	\$t1,0(\$s0)	#				
lh	\$t2,2(\$s0)	#				

Example: Endianness

/ low address						
.byte 0	x10,0x21,0x32,0x43					
\$s0,x	# BIG ENDIAN	LITTLE ENDIAN				
\$t0,0(\$s0)	# 0x10213243	0x43322110				
\$t1,0(\$s0)	# 0x00001021	0x00002110				
\$t2,2(\$s0)	# 0x00003243	0x00004332				
	\$s0,x \$t0,0(\$s0) \$t1,0(\$s0)	.byte 0x10,0x21,0x32,0x43 \$s0,x # BIG ENDIAN \$t0,0(\$s0) # 0x10213243 \$t1,0(\$s0) # 0x00001021				