## **Tutorial 3**

- 1. Find the byte ordering style of different machines/systems.
- 2. What kind of instruction set architecture do modern processors use?
- 3. Write MIP code for the following:

```
i. if (i == j && i == k)
i++;
else
j--;
j = i + k;
ii.
switch (k)
{
case 0: f=i+j; break; /* k=0*/
case 1: f=g+h; break; /* k=1*/
case 2: f=g-h; break; /* k=2*/
case 3: f=i-j; break; /* k=3*/
}
```

4. Determine the format for each instruction and the decimal values of each instruction field for the following:

```
lw $t1, 26 ($s1)
add $s2, $t1, $s2
addi $t2, $s3, 4 (addi is 8)
sub $t0, $s1, $s2 (sub is 34)
```