JAVA NOTE

#--- Big Endian(java 原生) to Little Endian(一般語言 C,C++,C#,python) ---#

public static int byteArrayToLeInt(byte[] b) {

final ByteBuffer bb = ByteBuffer.wrap(b);

bb.order(ByteOrder.LITTLE\_ENDIAN);

return bb.getInt();

}

public static byte[] leIntToByteArray(int i) {

final ByteBuffer bb = ByteBuffer.allocate(Integer.SIZE / Byte.SIZE);

bb.order(ByteOrder.LITTLE\_ENDIAN);

bb.putInt(i);

return bb.array();

}

\\

ByteBuffer \_intShifter = ByteBuffer.allocate(Integer.SIZE / Byte.SIZE)

.order(ByteOrder.LITTLE\_ENDIAN);

public byte[] intToByte(int value) {

\_intShifter.clear();

\_intShifter.putInt(value);

return \_intShifter.array();

}

public int byteToInt(byte[] data)

{

\_intShifter.clear();

\_intShifter.put(data, 0, Integer.SIZE / Byte.SIZE);

\_intShifter.flip();

return \_intShifter.getInt();

}

public static byte[] getLittle\_endian (int number)

{

byte[] array=new byte[2];

ByteBuffer bf=ByteBuffer.allocate(4);

bf.order(ByteOrder.LITTLE\_ENDIAN);

bf.putInt(number);

bf.flip();

bf.get(array);

return array;

}

[**[java] Convert bytes to Little Endian order**](http://pro-programmers.blogspot.com/2009/05/convert-bytes-to-little-endian-order.html)

**Synopsis**

Java uses Big Endian by default.

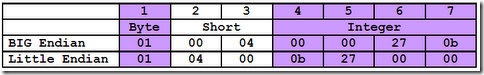
**Wish**

Want to use Little Endian order to transmit bytes over network

**Solution**

Use **ByteBuffer** class with Little Endian byte order

ByteBuffer  bb = ByteBuffer.allocate(7);   
**bb.order(ByteOrder.*LITTLE\_ENDIAN*);**bb.put((byte)1);   
bb.putShort((short)4);   
bb.putInt(9995);

[](http://lh5.ggpht.com/_LFzrs9y4Am8/SgKGZPPyuOI/AAAAAAAAC60/6m9HQuV1Zyw/s1600-h/Little-Endian%5B12%5D.jpg)

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