
Subject: Assembly - Convert 16 bit integer to ascii help please

Posted by [JB](#) on Sat, 12 Jan 2013 15:56:32 GMT

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I am looking for a routine to convert a 16 bit integer into ascii (text)

ex. convert \$C000 (49152) to the characters "49152" stored in a memory address.

I found one that almost does what I want, but it adds leading 0's.

Ideally I would like to have a routine that you can pass an option to either print leading 0's or strip them. But first things first I guess. :)

Here is that code:

```
.  
*  
* DECIMAL TO ASCII ROUTINE *  
* LOW-BYTE IN .X HI-BYTE IN .A  
* STORES ASCII STRING IN MEMORY  
* PRINTS PRECEDING 0'S
```

```
DECIMAL STX BINARY
```

```
  STA BINARY+1
```

```
  LDY #0
```

```
DEC1 LDX #"0"
```

```
DEC2 LDA BINARY
```

```
  CMP DECTBL1,Y
```

```
  LDA BINARY+1
```

```
  SBC DECTBL2,Y
```

```
  BCC DEC3
```

```
  STA BINARY+1
```

```
  LDA BINARY
```

```
  SBC DECTBL1,Y
```

```
  STA BINARY
```

```
  INX
```

```
  BNE DEC2
```

```
DEC3 TXA
```

```
  STA DECCHR,Y
```

```
  JSR $FFD2
```

```
  INY
```

```
  CPY #5
```

```
  BNE DEC1
```

```
  RTS
```

```
DECTBL1 .BYTE <10000,<1000,<100
```

.BYTE <10,<1
DECTBL2 .BYTE >10000,>1000,>100
.BYTE >10,>1

DECCHR .WORD 0,0
BINARY .WORD 0
