

CMSI 284
COMPUTER SYSTEMS ORGANIZATION /
SYSTEMS PROGRAMMING
Spring 2010

Assignment 0211

This assignment provides some character encoding practice and adds version control to the procedural mix.

Not for Submission

Review the following notes from Dr. Toal's web site as needed. Links to them can be found on the course web site:

1. "Numeric Encoding"
2. "Character Encoding"

By February 9

1. Connect to the Keck lab (either via *ssh* or a direct login on a Keck lab Linux workstation) and run the following command:

```
~metropolis/scripts/setup-class cmsi284 dondi
```

This will prepare your CVS repository for electronic submissions that I can access.

2. Commit your original *hw-encoding.tex* file under the */homework/cmsi284/encoding* folder.

For Submission

Encode the following characters in **UTF-32**, **UTF-16**, **UTF-8**, **ISO-8859-1**, and **windows-1252**. Present the answers in a table whose first column is the character, with an additional column for each encoding scheme. If a character cannot be encoded under a particular encoding scheme, write "n/a" in the corresponding cell. Show all answers in hexadecimal big-endian.

- APOSTROPHE
- BLACK MOON LILITH
- BULLET
- CUBE ROOT
- CUNEIFORM SIGN PI TIMES A
- GREEK CAPITAL LETTER EPSILON
- HANGUL JUNGSEONG WA
- LATIN CAPITAL LETTER N WITH TILDE
- LATIN SMALL LETTER GAMMA
- INVERTED EXCLAMATION MARK
- MUSICAL SYMBOL G CLEF
- NOT PARALLEL TO
- SECTION SIGN
- THEREFORE
- TRADE MARK SIGN

Append this table to the already-committed *hw-encoding.tex* file, then recommit. We're doing things this way so that you can explicitly see CVS's versioning mechanism.