

COMP1521 Week 4 Lec 2

Angela Finlayson

Announcements and Reminders

Weekly Quiz 3:

You have an hour time-limit, but can submit exercises after the hour is up for 50% max marks until **Thursday 21:00:00**

Lab 4 Due: Monday midday

Census Date : Sunday 10 Mar 2024, 11:59pm

Assignment 1 Due: Week 5 Friday 18:00 (next week)

Help Sessions [Schedule](#)

Where to Find these slides and feedback forms

Echo livestream chat

Recap: What does this represent?

10110110111110001110110101110110

Recap: What does this represent?

10110110111110001110110101110110

We don't know?

Is it an unsigned int?

Is it an int in 2's complement?

Is it a float?

Is it 4 chars?

Is it something else?

Recap Exercise

Convert the following unsigned binary into decimal

10110

Convert the following hexadecimal number into binary

0xACF2

What does this 8 bit 2's complement binary number represent in decimal?

11111111

What is -6 in 8 bit 2's complement?

Overview

Finish off Integers - endianness

New Topic Bitwise Operators:

- Used extensively in this course!
- Optimisation
- Embedded Systems
- Data compression
- Security and Cryptography
- Graphics

I'll drink 5^6
beers today

Software developers:



Mathematicians:



Please give Lecture Feedback



If you have any feedback or thoughts about today's lecture, please follow the link below. Please remember to keep your feedback constructive, so I can use it to improve the learning experience.

<https://forms.office.com/r/uQpW3a019H>