



1.2.1 Types of Operating Systems

1. A video game company uses many high end computers that each have multi-tasking operating systems installed.

Explain, giving an example, why the company's computers use operating systems capable of multi-tasking.

[2 marks]

2. A taxi firm is investigating replacing its drivers with self-driving cars.

Explain why the self-driving system will use a real-time operating system.

[3 marks]

3. A company specialises in computer-generated imagery (CGI) for film. Producing CGI requires lots of processing power and so the company has a large number of high-performance computers.

Explain why the company would use a distributed operating system.

[3 marks]

4. Define the term 'embedded operating system'.

[3 marks]





5. A company produces digital photo frames (i.e. photo frames that display digital photographs).

Put a **one** tick in the table to indicate which operating system would be most appropriate for the company to use.

[1 mark]

Operating System	Tick one
Distributed	
Embedded	
Multi-user	

