Types of Schedulers

Introduction

This chart shows the function of each of the three types of schedulers (long-term, short-term, and medium-term) for each of three types of operating systems (batch, interactive, and real-time).

Chart

	batch	**interactive**	**real-time**
long-term	job admission based on charfacteristics and resource needs	sessions and processes normally accepted unless capacity reached	processes either permanent or accepted at once
medium-term	usually none–jobs remain in storage until done	processes swapped when necessary	processes never swapped
short-term	processes scheduled by priority; continue until wait voluntarily, request service, or are terminated	processes scheduled on rotating basdis; continue until service requested, time quantum expires, or preempted	scheduling based on strict priority with immediate pre-emption; may time-share processes with equal priorities