UTORIAL 8

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Explain different information policies used in Distributed systems Information policy - to decide when, where and what information about the states of other nodes on the system should be collected.

1) Demond Driven

- 1 Node collecte the state of the other nodes only when it becomes either a sender or a receiver.
- @ Dynamic Policy
- 3 can be sender-intrated, receiver-intrated or symmetrically

2) Periodic

1 Nodes exchange load information periodically

- O Modes distribute state information whenever their
 - State changes by a certain degree.

 6) Centralized Policy nodes send the state information
 to a contralized collection points to a centralized collection points and decentralized policy-nodes send the information to

peers.

Why do we need Load Distribution?

- O Distributed system ofter a tremendous processing capacity
 - 1 However, in order to realize this tremendous computing capacity, and take full advantage of it, good resource allocation schemes are needed
 - A Distributed scheduler is resource management components of a distributed operating system that focuses on redistributing the load of the system mong the computers such that overall performance of system is

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	O to the said their random CPU
	a Due to random arrival of tasks, and their random CPU
	service time requirements, there is good possibility that
	several computer are heartly loaded crimes
	from pro performance degradahan), while others are
	idle or lightly loaded.
	(5) Therefore, defining a proper characterization of a load at
	node is very important, as load dismounting accounting
	based on the load measured at the or mose from
	=> Ensures that Load imposes minimal overhead.
21	Compose & Contrast sender-initiated algorithm & receiver initiated
	Sender Thitiated
	Load distributing activity is initiated 10 Load distributing activity is initiated
U	by an over-loaded node (sender) from an underloaded node (occeiver
	that attempts to send a task that is trying to optain a task
	to an under-loaded node creceiver) from an overloaded node escenders
notor Policy	A threshold policy based on CPV queue (2) Threshold policy based on CPV queue (2) Threshold policy based on CPV queue
(2)	length used by algorithm. CPU queue length.
	- A node is identified as a sender - Transfer Policy is triggered
	if a new task originating at the when a task departs.
	() ()
and a	Demand Driven Demand Driven because the
poury B	
, ,	policy activity storts only offer
o Jestian	3) These sinder-initiated algorithm's 4) Any of the approaches in
Selection Poucy	
100.0	consider only newly arrived task the selection policy
01.1.	B) All three approaches for location (5) They do not cause include
Stability	11/2/2011/14
	Calle system instability a might syring they will wantage of
	loade CAO cycles at high system
	CMC