State M/C Approved to Distinguish Phase. Specification.

Foul Shot?" By whom?

Foul Shot Stt N/C

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Fred Schneider, ACM Company Survey

Implement Fault-Tolerant Services U/I?

State M/C Approved to Distinguish Phase. Specification.

memory

process f no shared

process f no context

There is no context

rules (local communication) - rules for

Each process individually followed a set of

What is a distributed algo?
State M/C

C: set of possible commands
S: set of possible states.

\[ e: C \times S \rightarrow S \]

\[ e(c, s) = s' \] means if command C is executed in state S then the State M/C moves to state S'.
Every request is eventually granted.

The resource eventually released if the event process releases a resource which is granted.

...or (for this case, we'll use...

be granted in order in which they are

distinct for the resources & more

A process which has been

Request Requirement: Exclusion
Every message is eventually delivered between any pair of processes. There is FIFO communication channel in order messages already simplified assumptions.

Also: Request Queue or Process

Write System (for each process)
8 search ack to p.

resource msg + place + m = msg

A:\ when process P? receive Tm: P? request

Tm: timestamp of send smirk

AI: P? request resource msg to every other process (broadcast)

Tm: P? request resource msg to

A1: To request resource P? sends

A1go: their rules: [each rule execution is

seen by i from process 0

may value of timestamp

vec \in V \cap \{c', c' \ldots c''\} ]
A3. To release resource, process P_i releases resource
& sends to every other process P_j.

Pi: resource message
P_i requests resource from P_j which
earliest release
P_i requests

Tr: P_i requests resource
msg to

Pj

Cj

Pi

A5:

Tr: when process P_i receives
resource message
P_i requests resource from P_j

Pi: P_i requests resource
msg in RQ:

Pi

Pj

msg received with a msg from every
other process that has
received a msg from every
process that has released a msg
for P_i.

P_i