-	Andependent processes are easier to
J	nanage, since they do not share any resources among them
1	he problem arisas when the processes are interacting that
10	, when they share some data structures or road to communica
7	he not problem here is the concurrent processing.
_	an a single-processor multiprogramming sustem
pra	cosses are interloqued in time to yield the appearance of
811	nultaneous exocution. In a multi-processor system, it is
pr	soule not only to interleave the execution of multiple
m	estimately off mategalana of asla tul esecon
ori	126:
_	The sharing of global resources is fraught with poril.
_	Discolifered for the Os to manage the allocation of
	James assures
_	
2	reproducile.
H	soprovidle.
	Surprise and Surprise to the Asset of the Surprise Surpri

*	Race Condition:
	A race condition occurs when multiple processes as
	threads road and wife data items so that the final
	The said and more said steries sound site stray
	result doponts on the order of enoution of instructions
	In the million program.
	For m. The true moroseos Pl and Po dear Al 110
	Maria Wa by At come naint in its conscition Pl IV
	to the value \$1, and at some point in its execution
	Pa I I was a sente contra un ute oxocution,
18	P2 updates a to the value & Thus, the two tasks use
17	I DI DI SERVE SE STILLE STORICE DE LA CONTRACTOR DE LA CO
41	of the race (the process that applates last) determines the
15	final value of a.
	A Day Day Louis Day Louis And Day South Control of the Control of
>	Apr. 1. 9 1 0
	Operating System Concerns:
	raised by the mistern of some management issues are
-	saister of cancerporate la saister as
	raised by the pristence of concurrency? We ran list the
18	processes. This is done if the unsion
	processes. This is done with the was of process control
	Catacks.
+	Jos each refive prome Il
+	for each rective process these revolves include Processor
-	time Memory, Files, & 10 deviros.
	3 dle ra adaros
	mach me to smust protect the data & physical resources of
T	each process against unintended interference by the other
1	processes. This involves techniques that relate to mamory the
+	10 devices, sold sold to momory fe
+	4. The functioning of a process, & the cutput it produces must be independent of the speed at which its arccution is copied out relative to the speed of other concurrent processes.
1	must be godown by I process, & the output it produces
	is carried out along the speed at which its projection
	trouses to the speed of other concurrent
	Marcosco.
1	
+	Lan be addressed us to I be is sue of speal independence
	can be addressed we need to look at the ways in which
	processes can interact
	The same said

	> Process Interaction: - We can classify the ways in which
=	mocesses interaction the leasis of the degree to which
	They are augre of each other's existence
	· Processes unaware of each other
	· Processes indirectly aware of each other
	· Processes directly muse of each other.
	The state of the s
1	Competition among Processes for Resources:
	Vegan Marc Almanda
	Concurrent processes come into conflict with each
0	ther when they are competing for the eve of the same
I	expures. In the case of composing processes three control
P	roblems must be faced.
_	· Mutual Fichision
	· Deadlock
	· Staruation.