



Proof =	We design a DTM M" that is clocked to run in time to(n), so L(m") & DTIME(tz	(1)
Such	That L(M") differs on sine string X from (M) for every M that can I time	+ (1)
	Input X n= X   [Code of M', length-some c # Vi Y2 length= some d indication of code of M', length-some c # Vi Y2 length= some d indication of code of M', length-some c # Vi Y2 length= some d indication of code of M', length-some c # Vi Y2 length= some d indication of code of M', length-some c # Vi Y2 length= some d indication of code of M', length-some c # Vi Y2 length= some d indication of code of M', length-some c # Vi Y2 length= some d indication of code of M', length-some c # Vi Y2 length= some d indication of code of M', length-some c # Vi Y2 length= some d indication of code of M', length-some c # Vi Y2 length= some d indication of code of M', length-some c # Vi Y2 length= some d indication of code of M', length-some c # Vi Y2 length= some d indication of code of Code of M', length-some c # Vi Y2 length= some d indication of code of Code of M', length-some c # Vi Y2 length= some d indication of code of Code of M', length-some c # Vi Y2 length= some d indication of code of Code of M', length-some c # Vi Y2 length= some d indication of code of Code of M', length-some c # Vi Y2 length= some d indication of code of Code of M', length-some c # Vi Y2 length= some d indication of code	th.
Wi.	Justialize a tape to trini (lake train) = clock register which take down	- V
	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	
is can be	= the two tapes of M'. I denied from M by	B-1
maged in		
nl time by ver coding	TM obtained from some M by the Theorem. The time overhead for M" to simulate each step by M" is just the factor of a needed to find and exercise	
Ver Con	on success if fail, reject X. is just the factor of a next of success.	for a
a/\ \	Enter a simulation of M on input x= M#4.	
A	Which is a padded version of the own code & M',	
Hard.	Padded by y. Meanwhile, decrored the clock at each skep of m" - forced to ving  To and when the clock gives to O, reject.  In time t2(n)	Henre with
9105 -	a Else, this means M'(x) finishes under your simulation by the clocks	the simulation
	before the clock goes to O. TO M'arepts x reject x (50 LIM!) E	before the 1/01
Iklore"	If M' reject x, alupt x. \ DTIME(tz M)	Thus A
		50 1

The cut-off part at left is the same as before and does not matter here. Next adds the end of the proof:

There is clocked to run in three to(n), so U(m") & VTIME(to(n))  There is sine string X from L(M) for every M that runs in three to  The total X is a sine string X is a sine to	Take M' to accept A in time $J(\xi_1(n) \mid (y \mid \xi_1(n))) \text{ by the Theorem.} $ $B_1 \in \{(n) \mid (y \mid \xi_2(n)) = o(\xi_2(n))\} $ De
r some M in the Theorem. The kine are head for M" to simulak each skep by M!  Nit fail, reject X. is just the factor of c necked to find and execute  mailtain of m! on input X = m! # y  Padded veryin of the own code F m!  The man the claim goes to O reject  mans M!X! Hinisho under your simulation  the disk goes to O. If M alogis X. reject X  If M' reject X, alogy X.  To M' reject X, alogy X.  The m' reject X alogy X.	for any c there is a d such that for any n = C+d,  ( t (n) lost (n) < t z (n).  Hence with X = (M) # Od DTIME (Och)  the simulation of m'(x) finites before the clock rings and gives a different morner.  Thus M'(x) & M(x) = M(x) = A(x). Note: Wo . 1.