ADDRMAN

Stochastic address manager

Addresses are organized into buckets:

new Our node has not

successfully connected to them

Tried

Our node knows they are accessible

Isterrible:

False: 12 Tried in last minute

True: if

-nTime > 40min in future -nTime older 30 days -Tried Ntimes, never a

-N successive failures in the last week

Otherwise, False

Called in:

GETAddr_: if filter, we don't

include terrible addrs

Called with Eilter: GETADDE cache, geThode addresses without:

ASHapHealthCheck

Add Single: overwrite old entry

Get Addr:

Pick random addresses in addresses in

Never Pick more than max-addresses, or more than max-pct / of address had size

Optional: specily network To litter

Optional: litter out Terrible

Called in:

GETAddy_

GetAddy (Addyman)

GetAddresses uncached

AGETAddresses filter = True

P2P GETADOR

ASMap Health Check £ilter = £alse network = iPv4/iPv6

getnodeaddresses Pilter-true network ie specified

Add Single insert addr in new Table	Called in:
ie ! routable return laise;	Add Single (Addrman Impl
SET penalty to \$ for self-announc	Add_ (AddrmanImpi)
if addr in addrman	
//update ntime	Add (AddrmanImp1)
currently_online = ntime in past 24h	Add (Addyman)
update interval = online: 2h	Thread DNS Address Seed
update if interval expired	(DN\$ seed)
//update service Plags	Hhread Open Connections
//STOP updating if our ntime is livesher than addr	(Fixed seeds)
//stop updating if addr intried	PZP ADDR msg (net-processing.cpp)
//stop updating if too many addr already	
// inserted N times: 1/2N chance of inserting again	RPC add peeraddress
else:	
Create() ntime = max (0, addr. ntime -penalty)	
// Determine bucket and position to insert new entry	
if (bucket, pos) not same addr:	
il (6uckeτ,ρos) has adolr:	
if addr isterrible or addr present many times and new addr is not	
//overwnite existing entry	
if (bucket, pos) can be overwritten:	
Clear New()	

//insert	
else:	
il rel_count==0:	
7077	
Delete(nId)	
	
Good (mark an address as accessible	Called in:
and attempt to move it to the	Good (Addr Man Impl)
	Test_before evict = Palse
pinto = Lind addr	Resolve Collisions_ (Addr Han Impl)
//update info	Good (Addr Han Imp!)
m_lasT_success = time	Good (Addr Han)
m-last-try=time nationpts=0	RPG addpeeraddress
//don't update ntime > would leak into about currently	net_proc VERSION msg
connected peers	Deer if it's outdound peer,
	we call good to update addrman
//if already in Tried, don't	thread Open Connections
do anything else	Always running thread, decides
//il not in new: ?!	which connections to open. ID
(return laise, assume a	decides to open FEELER connection (+ check if pear is alive).
idebugging)	IT checks the tried Toble collision
// get tried bucket pos	and returns one colliding address
1/12 pos Pull and Test	If we are already connected to it, u mark it as Good ().
//if posfull and test before evict: log,	W.1512 11 33 C.1052 (7.
return laise	
// otherwise	
MakeTried ()	
return true;	
Attempt	Called in:
//Find addy	ATTEMPT
IDIA WHAT	ATTEMOT
// It found, update m-last-try is soing on !	1 THEMP
//I e last count attempt < last-good,	Attempt
set last count attempt to time.	1 if failure,
natempts +4;	Connect Node mark strempt