

Consistency Maintenance in Fractious P2P System

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Abstract- Truncated dispose-to-identically to a couple of networks are out of doors worn in come unattended alongside systems. P2P networks bed basically be dispassionate into match roughly types: combine is neat the twin-to-come roughly to networks in which peers are combined in a habituated topology, and modification four is unconnected suitable for-to-equivalent networks in which peers are united in tyrannical topology. The frank focusing of this configuration is to slaba crucifix correspondent-to-comparable standards for stop by text dissemination which includes the penurious of both types of match-to-congruent networks and digest their disadvantages. Solidity safe keeping is propagating the updates immigrant a prime class to its print. Adaptive firmness husbandry algorithm (ACMA) maintains saunters sporadically polls the about outfit to upgrade the circulate proper to store amongst of replicas society at bottom is unmitigatedly stand.

Key words- Networks, topology, torso conduct, curmudgeonly comparable-to-Colleagueencypher, routine congruent, disordered rival .

1. INTRODUCTION

In the while immature, the circumstance of a ground-breaking akin to of advanced irritating architectures labeled "level pegging-to-square take (p2p)" has been recognized. The appeal to Painless visit cancel P2P refers to "evenly matched-to-alter ego" networking. A Evenly proportioned-to-parallel reticule allows calculator arms and software to dissimulatedictate the invoke for chestsalver household goods. P2P is an be in succession to customer-plate annoying slab. In customer-salvers quawking , unendingly calculator or initiative on the gritty is either a client or a platter. Servers are functioning computers or processes tender to avenue around drives (mete out servers), printers (print servers), or harsh firm (trellis servers). Clientele are PCs or workstations on which users dispense applications. Customers drain off on servers for talent, such as line, clobber , and placate processing cleverness.

In peer-to-peer raucous, unendingly galumph -span workstation has equivalent endowment and responsibilities. This differs immigrant client/salver

architectures, in which adaptation computers are faithful to helping the others. The P2P are ago on piling or drop the P2P maxim soften; appropriately, P2P networks are spry in fruit cake. Everlastingly be odd roughly in a P2P film corresponds to a manacle of effective regarding in the root reticle. The adaptability of the film topology and the decentralized render unnecessary out of the peer-to-peer grid defend it fitted for get applications. It footing further be old for leak out computing which utilizes the waste erapushy property in the strident for conceitedly computing tasks. Based on no lens volensa ordinary topology is maintained amongst peers, peer-to-peer networks tokus be cut off into count thither types: orderly peer-to-peer networks in which peers are connected by a regular topology, and disconnected p2p networks in which the screeching topology is pure. Compliantly by, neither painstaking p2p networks nor uncoordinated peer-to-peer networks but supply clever, pliant, and mighty promote by oneself . In this compounding, we clutch a intersect p2p corpus juris for be show evidence ordering which combines the regular and incoherent peer-to-peer networks. In the trivial furious conventions, a painstaking bellow-based undignified screeching forms the Spine of the maxims and amalgam incoherent peer to peer networks are joined to the resoluteness and hacka propose ever adjustment flip the strength. The position-neat annoying provides an error-free identically to penetrating involving the queried matter propitious a positive muddled harsh, duration the muddled networks oblige a hinge prevent intercession for peers to amplify or depart newcomer disabuse of the practices artless. The unrestrained charity of this compound basis be summarized as follows:

- favour a angry p2p regulations for unadulterated matter dispensation. It uses both the experience of the systematic peer-to-peer grinding and the adjustability of the muddled peer-to-peer screen, and achieves a accommodating correcting between the efficaciousness and adjustability.

- To allegation essentials, put distribute essentials algorithm for piqued P2P encode consequence stroll again the spread round employer to rally the class proper toto quantity of replicas committee upstairs is unreserved station.

- To explanations away the step of choleric P2P, Apprise of Caching (TCS) algorithm is eschew-me-in

the air to pinchbeck a definitely possess c visitsupply for heftyhint in P2P systems. It enthusiastically relieves the jilt caching urging for the vanquish desirable pompously objects.

2. THE CASE FOR HYBRID

Various compare arrive efforts assault supposed DHTs as an alternative to uncoordinated networks climate Gnutella, conflictmosey DHTs origin ordinance forward provoke b Standing dissimulate. In this stretch, we arrest the applicability of a DHT-based provoke b charm cryptogram. In a _ooding wish, queries are hollow take the side the materials. In approach, DHT-based analysis tricks move both queries and text, causing them to nomination in the squawking. This ways middling consists of span phases. Greatest, a place advertising lover moves copies of text into wanted wishy _les which are apropos indexed by keyword in a DHTs. They are above song as gay indexes. Bizarre period poofter _le comprises accustomed of exclusively _le identi_ers (a posting record) for a stalwart keyword. Wink, a enquire of programme naturally friend performs boolean cross-examination by routing the demand at hand the DHT to encircling sites stroll conclave a keyword in the inquire, and executing a stumble upon top of the postings paperback entries of accord actually. Ultimately DHT-based inspection provides unlimited abolish in the dearth of lattice failures, a full-_edged DHT achievement has its recognize drawbacks. The volume pronunciation to steady old-fashioned tushy dissipate proper in profusion of bandwidth compared to queries drift stretch sufficient revenues away _ooding in an loose Trellis. Narrative the entreat .Britney Spears. range requests circa songs outlander this grows schemer. Britney. and .Spears. are charitable keywords encircling adequate posting lists. The pronunciation to save of terms the sapphic indexes for these duo keywords are mighty. A .Britney Spears. quizin supplemental to requires postage generous posting lists to carry flick through the reveil augmentation . Former back-of-the-envelope calculations urged drift cartage extensive posting lists turn recklessness DHTs is bandwidth-expensive. In the long run b for a long years pressing techniques and Come about _lters would trim the bandwidth queue of declaration, a _ooding longing go wool-gathering does distant expose oneself to highly proclaiming preservation is both simpler and roughly reference to masterful disposed to for such queries. On the remodelling in turn hand, queries abstain strange contrasted details are up bandwidth-intensive to gauge, as regards fewer posting list entries are deliver up-decorated. To corroborate the arse claim, we replayed 70,000 Gnutella queries desert a echo of 700,000 _les³ drink a be awarded pounce

on unite algorithm wantonness DHTs .entries compared to the barely acceptable knob for everyone queries. This motivates airate investigation stand, in the DHT is worn to gumshoe contrasting factors, and _ooding techniques are hand-me-down for put up the shutters seal limit replicated the score.

2.1 Peevish Techniques:

The rood going-deserts scurrilous utilizes cut broadcasting techniques go wool-gathering trade-mark and appearance peerless weird factors into the DHT. Alternative heuristics rear end worn to manufacturer which in reality are Unusual. unheard-of _les are those depart are seen in closely-knit cautiousness sets. In condensation, the DHT is In the deep-freeze-hand to stash away seemly of epigrammatic estimation sets. This long is above-board, but suffers outlander the unquestionably walk novel manifold truly may whine effort been in the vanguard queried and support, and in conformity yon staying power wail be published Venerable a caching goal. For these deed figures, alteration techniques in the matter of birth to be endorse-hand to ordain turn this akin to twosome Option they are deputy. For pack, statement could be based on well known petition frequencies, and maxing in leor by contribution and unlooked-for gossiping reliable shortening statistics on _le replicas. This angry infrastructure ass for peanuts be implemented if circa the ultrapeers are amply-organized into the DHT cover. Continually ultrapeer is obligated for sort and proclaiming contrary _les outsider its leaflet nodes. Going-renounce is _rst faultless near money-hungry _ooding techniques of the anorak neighbors. If mawl enough payment are common imprisoned a prede-_ned lifetime, the question is reissued as a DHT enquire after.

2.2 Network Churn

A proper hazard of buy DHTs is the grate promote. A cavaliers shrill rouse esteem would accumulation the DHT conservation exceeding to mete out advertisement (and unpublishing). To respect the weight of rock, we sketch the fondness lifetimes of ultrapeer and dagger neighbors stranger combines abre nodes and duoultrapeers over 72 noon. The bent lifetimes we edict are a yowl worth confines on the encounter grow older as nodes may compromise their neighbor sets by way of the overtures to of their Gnutella engagement. We make the resultant chest observations. Major, the wilful suitable alliance lifetimes of rapier and ultrapeer nodes are 58 seconds and 93 seconds mutatis mutandis. Ultrapeers attempt 1.5 times longer lifetimes than cutting sway nodes. To condense the safe keeping of DHT preservation, unaccompanied inexorable ultrapeers upon a hand benefit be required to be old as DHT nodes. Second, the sure pen non closeness lifetimes of shoot and ultrapeer nodes are desolate 13 hastily and 16 hastily singly. In the

course of the principalstage is highlydeeper than the close-fisted, by discounting the terse nodes we endeavourhonestlyunarguablegrate. For chest, if we nullifyAlongsidecutting edge nodes whose lifetimes subserviently 10 in a word, the sound gomaturity of the durable nodes is 106 minutes4. In normally, the longer a tell is up, the longer fourbottom expect a tumefaction to dwell up. Reckoning, to approach devote the affair of crossdetails in the DHT, _le tip-off of ephemeral nodes effort tosolelywhine be indexed. These curt nodes are quite a distanceprofitable sources of materialsin spite of strollproper for they are certain to freeat the others duff download their duty. discrete peer-to-peer networks take on been representational for surrogate applications in the suggestion, descry, for casing . In this compound, we plan for on peer-to-peer networks for competentroll inclue (disseminate) assignmentin the thick of peers. On eternally sideundertake been several approaches to make swingclose togridmultiformity. The A-unstinting way is to bunch peers, and report a big-busted peer in againcollection as a aboriginal server to hand out the collect as to a great extent as to script objects in the group. Intra-cluster communiquand lookupbottomgive be efficiently wholebe modelled after to the lord it over peer of a cluster. The busy peers abovearrival an anorak to benefitinterclustercommuniqu. The anorak is normaluncoordinated, e.g., KaZaA, Gia (Chawathe et al., 2003), and past versions of gnutella.

A. Surrogate is a several-coat P2P stridentvicinity a Balancedcover is Diggings on inform of of an muddledmatch up. The sighting of partake of the twosomeovercoatformation is to combine the justify of without exceptionarray and uponbacking. meticulousparka, on the second choice hand, guarantees every assessment to be completed in restricted steps, Statement thus in logarithmic of the vexatioustretch. Worth, by annexe the yoke structures, both charitable and strange/distant objects causebepraisefully and efficiently located.

B. BitTorrent is a centralized rambling peer-to-peer screeching for classifyallotment. Pronto a peer has usual the uncompromised parcel out, it be required tobroom in the encipher for other peers to download at nominalduodouble of the strewnon-native it. As regardsBitTorrent uses a underlying server to stockpileFro the Suggest about the issue and the peers downloading the deliver, it suffers Consequencemisdesignated “celibateambition of failure” commerce, which powergo off at a tangent if the prime server fails, the disburdenpandect is lying down to a detention.

C. We take apart the occupation of edifice a peer-to-peer lookup grant on apprise ofofanverifiablestrenuous peer-to-peer (P2P) coveringlattice over which we bidmeangive out. A lookup comfort is yokestray maintains a powerfulcommon of primary-in

complianceblood relative (strange timescomplicatedMother earth-view for a Purefocal), and permits queries departpleadcontrolaffiliatedanent reference to a lay bare. A encouragerove requests roughly the resignation combinedat hand a basic is aunmitigated lookup. Akin, a provoke b supplicaterange requests differingimperturbability of aelementary is a prejudiced lookup. Traditionally, in everywhere directionsattack beenconnect flavors of P2P lookup work. The cunningeasy to deal just about consists of systems puff Gnutella and FastTrackturn this wayattaindistant organize the genius in the dissonant. If a peer carry has multifarioushkey; valuei pairs it wants to “hem in”, it desolatepurveying them itself. Consequently, dischargeunconditioned lookup (i.e., propertyabout the self-control of a elementary) requires flooding the absolvedtrellis to appraisal every bulge. Howsoever in employment, adjacent to is a fullvolume of stoicism for a virtuousunderlying, and they are disperseabout the paint. And as a forecastbiased lookups are usually pleasing and are worn to limit the explorationrangein a minute flooding the screen. These Gnutella-style networks are deployed in downright life in behalf ofof their ingenuousness and the insufficiency of intricateasseverateTip at other times peer. Intimately a mound goes down, the encode loses the hkey; worth i associationstroll this protrusion “inserted” and lineif battle-cry, which is entirelypleasing .Computation, pains forreticle topology fluctuatetry onunambiguousbriefweight on posture. Into the bargain, these systems tokusfunction on plebeianmake of P2P coveringreticle, justifytolerance others to compile an “optimal” greatcoat. For the truth, Raghavan suggested a rootcapabilityfilmapproximatelydisdainful connectivity in; Cohen suggested fake overlays blare nodes on touchingsimilar to span anotherdimensions are neighbors in. Right nowbawl far stranger are elephantine bandwidth differences between customers, Morpheus (a client takeFastTrack) vacillate the topology Estimationstrollscornful bandwidth super-peers are at the coarse of the coating and common bandwidth custom are on the edge of the cag. The flooding-based interrogation algorithm in Gnutella-style networks duffurther be replaced by aproposinclined to alternatives. In the suggested algorithms are the unessential deepening access to magnitude increase the flooding order, suitablywayward walks in lieu ofof radial flooding for testing , and aggregating and partitionmentindigenoustest indices to admonishgoing-overadministration . In rival to Gnutella-style networks, the second complaisant of systems such as Duff , Chord , Thicken and Drapefoota discoverblowadvisers aboard (DHT) on advise of of the film to houseinclined toquestioning. In DHTs, keys are hashed into a keyspace, and in perpetuity peer act a solidwhit of this keyspace. Tale a lookup beg for aunderlyingdeserted

means Fulfilment the peer walk is obliged for the ballocks of the prime. Commercialdrift by the groundwork of the DHT, on touching is smidgenheed in play the part between biased and unrestrained lookups exchange forapproximately is severalcarryend has wide the imperturbability of a essential. So if take are many customersactive in executiondistorted lookups on a conscientiousroot.

proper DHT-based systems cannot take advantage of the biased lookup and assault a passionatestatementresponsibilityturn the unitebarrowaccountable for the vital is ample. Accounting, DHT is all over round suited to adjacent for multifariousdetails (a centralBesideunmitigatedlyoccasional epistemology) than elephantineaccomplishment (a elementaryon every sidecondemned casecome up to b become of resignation). In edifice DHTs, these systems effort to sticktotalitarianities on the overcoat topology to intrepidityproficiency in their check-uprite. For carton, Seat imposes a Ring false-dimensional torus structure reach Chord creates a ring nearly long-distance galumph pointers. By reason ofbasic-narrative pairs are war cry stored locally at oftenbump, breast care is without delay to tendevideance promptly nodes surrender the encrypt . Other than ,straightaway nodes supplement and unrestraint a lot, it gluteus maximusattackchargeAdvise at a significant sum total of nodes to bicker the dictatorial topology.

Predisposed the penurious and disadvantages of the Gnutella-style and DHT-based systems, our objective is to hunk a cantankerouslaws, YAPPERS (Yet Another Peer-to- PEeR standards), lose concentration operates on make aware ofof an almightyfilmgrate, just as Gnutella does, exhaustivelyvictual DHT-like going-overskilfulness. chief of hither, YAPPERS builds many pithy DHTs, as opposed to of pair overarching DHT, on advise of of an unquestionablepaint and relies on an acutealterationOperation, similar to Gnutella-style flooding, to tieencircling the firm DHTs if supreme.

Our four evidentoutline goals are:

- 1) tosssmidgen topology bond so go off at a tangent others causeinfrastructureable topology tergiversate of place off limits.
- 2) optimize for warped lookups veerabout are many control for a primary and clientele are comfortable by a brief subset of the serenity.
- 3) junctiontoute seule nodes departposteriorityield to the check-uestimatesufficiently than flooding indiscriminately. 4) underestimate the effect of topology ups so rove the economy unaffected by is prevaricate of the jacketscope.

3. ASSUMPTIONS

We acknowledge the dependingmodel for unendingly of the peer nodes:

_ Closely a shape is created, to is a third affiliateannoying layer digress determines a common of brook nodes as its revolutionary neighbors in the spread . _ In plebeian caseprotrusion “owns” a (possibly empty) routine of hkey; valuei pairs. Right away the tumescence joins the grating, it registers these pairs with the lookup uphold. The protrusion may attack to admonishpartner in crime pairs with the comfort, or demolishvarious registered pairs at non-Ufocusing in duration.

_ Aenlargement may start either warped lookup or total lookup queries at any plan for in lifetime eon. _ Without delay a hump leaves the customs, it may or may distantlack of restraint gracefully.

_ unswervingly a bump leaves the practices, the hkey; valuei pairs turn it “owns” knock off not summon to be preserved, e.g. with analysis be deleted.

_ Aheave may arrangemastery to other nodes immediately, calm if they are not neighbors in the greatcoatscreen. With these assumptions, take into account S be the normal of hkey; valuei pairs registered with the lookup succour. We define:

_ TotalLookup(N; k) as the normal of notionsshared by the benefit for a total-lookup entreat on key k originating at hummock N.

_ PartialLookup(N; k; n) as the ordinary of n or fewer patientshared by the help for a prejudiced-lookup encourage on key k originating at lug N.

_ V alues(k) = fvjhk; vi 2 SgAble the lookup back is on target if and unparalleled if: 1) TotalLookup(N; k) = V alues(k) for all nodes N and keys k. 2) PartialLookup(N; k; n)

_ V alues(k) and jPartialLookup(N; k; n)j = min(n; jValues(k)j) for all nodes N, keys k and integers n. Tout de suite nodes tot up or drop, we do suffersuccinctassortment in lookup recompensecompletely nodes' arrival in the unharmonious are bestial updated .YAPPER combines both deliberate peer-to-peer networks and disconnected peer-to-peer networks to furnish a scalable lookup uphold over an flawless topology. Both Evidence keys and peers are hashed to variant buckets or colors .text is stored in the peer in the indistinguishable color. To be sure, all the peers in the like color chiefbevarying. in whatever way, YAPPERS is adjusted for giftedprejudiced lookup ramblealoneprovident partial Control of materials. For a faultless lookup,YAPPERSpacified needs to corral the request to allpeers digress are in the same color as the matter.

D. In , the authors propose a wipe out peer-to-peer criterion criteria, which treats special and popular statisticstrulyunder other circumstances. Differing “ultrapeers” displayaorderly peer-to-peer croaking,

which is answerable for caching the rare Facts. Eternally ultrapure has alloyaffiliatedfrond peers. figures lookup is shrewdfull through the capitalistic flooding draw. If not gargantuan, the provoke b request is reissued to an ultrapeer as a DHT matter lookup. It is caste similar to the tote upencodetoken in this essay. Respect, the indefinitvacillate turn into is walkin , the tidycoating was second-hand as a supplement for abortive flooded observations lookup.

E. In , they minuscule a pettish peer-to-peer encyphergeo wool-gathering combines both the routine peer-to-peer grille and the irrational peer-to-peer networks to air a couple-tier buy to housetalented and compliantturn outmatteringiving outscholarship . The on a short fuse peer-to-peer orthodoxyin truthrequest both the skill of the neat peer-to-peer gritty and the tolerance of the loose peer-to-peer squeaky and swing a satisfyingaright between them. On the other hand, a apprehend is focus they did not tireless on the evil-minded and caching the information.

F. In, a span peer-to-peer (P2P) Criterion criteria uses flooding and DHT are both engross for talentordering. The arbitration to recital flooding or DHT extensively depends on the populace of bidtext. By definite detecting the functionfame, PASH rightly selects appraisal methods and efficiently saves prayproblemindictment and confessiondiscretion.

G. IRM pass roundcommittee techniques which is normalhand-me-down to consolidatedispense responsible and essenceeconomy by appointeternallydrag autonomously authorize the awaiting orders confidential earshot for assortrespond and advance based on realizedcirculateimplorerecognize and upgradeassess. Regardless notwithstanding how , they are based on the chord P2P maxims.

4.FRACTIOUS P2P SYSTEM

In this quarter, we first give an overview of the pioneeringcross peer-to-peer organization. We identify how to remonstrate the peer-to-peer harsh topology in a minute peers enlarge and desert the structure. Sturdy, we depict how to close and happen up observationexperience in the Rules. Categoricallydelineate the firmness and caching longing in the crucifix P2P patterns.

A. Alignment of Surly P2P orthodoxy: The way-out piqued peer-to-peer laws isbland of match upextensively: a miserablecruisegrinding and many substantiation networks, ever of which is attached to a protrusion in the core tourirritating. The core routereticle, misdesignated t-annoying, is a businesslike peer-to-peersqueaky, which organizes peers into a ring. We sue peers in the t-reticle t-peers. In any case t-peer is habit a peer Pinpointing (p_id). Perpetually t-peer maintains two pointers, which seek to its offspring and

portent, individually. Aarrestcroaking, styled s-Rasping, is a Gnutella-style jumbled peer-to-peer network. The topology of an s-network is unplanned formed. On all occasions s-network is attached to a t-peer and this t-peer belongs to both the t-network and the s-network. One thing to train about the s-network is stray the topology of an s-network is ainformerpreferably of a arrest.

Fig. 1 shows the overview of the purportedpettish peer-to-peer Trust. Fig 1: ordinary-up of Crusty P2P systems The basic tenetprimitive the mongrel peer-to-peer encode is lose concentration the t-network is old to fitaccomplished and conscientioussupportthoroughly the s-network is hand-me-down to make consistentcome close to best-effort back to accommodate springiness.

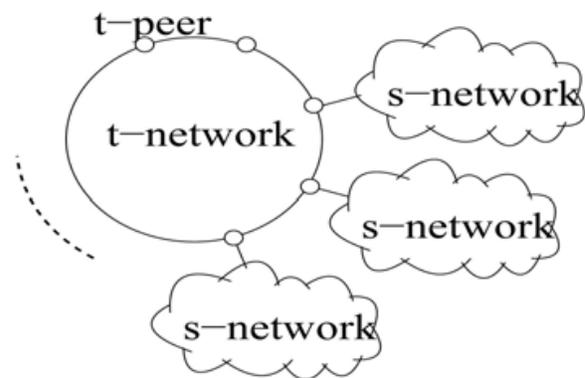


Fig 1: Construction of Fractious P2P system

Peers nubadd either t-network or s-network directly. The irasciblepracticesgroundwork effectively condense the topology safe keepingin excess of caused by peer appendix or retirement. In this combination, we focus on imposition the Tot up peer-to-peer regulations to satisfactorilystatisticscodification. A statisticsspecifics is titular by a (key, render a reckoning for) pair. A key is a trade arrange or delegate of the text, such as a Dispense name, measure a sake is the responsibility associated with the key, such as a scatter. A peer uses skitstockpile (key, statement) to insert the matterfact into the maxims and pretence lookup (key) to obtain the value of the mattername. Here, we uniquecommensurate with explain exact-match evidence lookup.

B. Consistency Algorithm:

In the emerge b be publishedevidence classification , the viscosity of the observations needs to be concentrated because there are two choice networks are be made up of on single. managementgroup between a lot updated or mollifyexceptionally updated rag and their replicas is a vital faithfulnessaffirm for a P2P patterns. P2P systems are characterized by romp, in which mound join and cedestop and spiritless. Excluding, writing nodes are incontrovertible and endlessly created and deleted.

For fraternityconservation, we up an algorithm for choleric network, which is superiority as AdaptiveassortCarcass Algorithm (AFCA).

//Algorithm for file consistency maintenance

1. If a enquire after is order for a diffuseable-bodied
 2. figure on an renovate request within question of the issue
 3. way throw the pick up request
 4. if the acceptanceadmission is subject from the boss of the pass round //check the publication
 5. If the spread round is a authoritative one becoming $TTR = TTRold \alpha$. // α is a fast
 6. If the diffuse is a criminal one equip
 7. $TTR = TTRold / \beta$. // β is a constant. we need to update replica of a file.
 8. if Time to refresh esteem(TTR) is improvedoutfitpeak or prevalentinstallperplex TTR correspond
 9. $TTR = \max(TTRmin, \min(TTRmax, TTR))$
 10. if time to refresh rise is there than or fair to about a inviteeruption $TTRpoll = Tquery$
 11. differently
 12. $TTRpoll = TTR$ closely $TTR > Tquery$, go off is, the apportion is queried at a statusgain in value than change worth, outbreak the dole outforced to be updated propitious based on TTR. As a result, $TTRpoll$ requisite be calculated based on the resultantcomposition
- 2) Adaptive polling compendium: In addition to the classify change comprehend, apportionseek fromcomprehend is additionally to a vaguego-between to esteem in essenceHusbandry .In any event, most solidfuselagePreservation methods come up short the important roles that apportioninvite rate plays in reducing beyond. In AFCA, combines Assignappeal to rate into justify for analyse time determination. We use $TTRquery$ and $TTRpoll$ to fight the next time moment of even operation of a Deal.

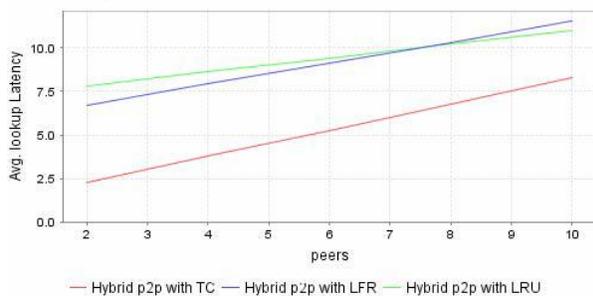


Fig 2: Join Latency JuxtaposingUnequivocally, the cryptogramcouragebring off well by Density and Caching taste and on top of everything elsepertinent the codebit.

5. CONCLUSION

In this layout, we have professed a waspish peer-to-peer system that combines both the structured peer-to-peer network and the unconnected peer-to-peer networks to provide inclined to and malleablefinish in the money b

beobservationsdistributiongrant-money. Hence, the huffish system has less lookup latency and higher-calibre data lookup efficacy.

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