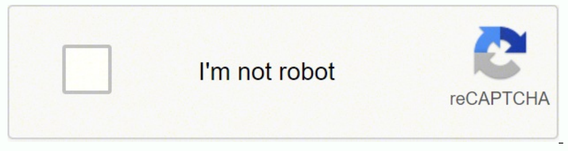

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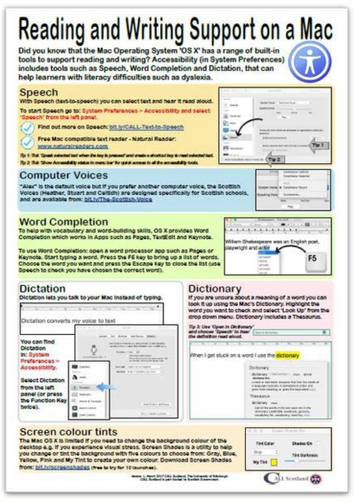

Network Layer Performance in Peer-to-Peer File Sharing Systems

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***Abstract*—Nowadays P2P applications dominate many networks. However, despite of their diffusion, the analysis of teletraffic generated by these applications in real-time environment remains an open issue. In this paper we look at analytical and simulation models, which can be used for quantifying volumes of P2P teletraffic at the network layer, to ease still existing difficulties associated with monitoring such teletraffic. We present an event-driven simulator, able to simulate P2P teletraffic both at the application and network layers in large overlay networks (we have successfully tested it in networks used by up to 500,000 peers). The simulation model was developed for studying the impact that P2P systems have on the network layer performance. We studied also the application layer dynamics by looking at time evolution of file-downloading processes and at the offered load generated in such networks. We report the results of several simulation scenarios, in which we focused on the consequences such teletraffic has on the Internet access link of an enterprise network.**

***Index Terms*—File-sharing applications; Peer-to-Peer modeling; Network layer; Traffic simulation; Internet traffic.**

I. Introduction

P2P applications still represent today one of the most source of traffic in the Internet. Their large diffusion is testified by many measurement studies, which reveal that such a diffusion is not restrained to home broadband Internet accesses, but also involves enterprise networks [1] - [3] as well as networks of industries and commercial companies [4].

The ability to quantify the impact of P2P traffic on the network is fundamental to a number of network operations, including traffic engineering, capacity planning, quality of service, forecasting for long-term provisioning, etc. The difficulties in estimating P2P traffic volumes lie in the nature of such protocols, which are specifically designed with the aim of hiding their presence in the network [5]. Despite the important efforts of the research community in this direction (see [6] - [8]) P2P traffic detection and classification are still open issues. However, the present issues in measuring and estimating P2P traffic can be faced with traffic models. With this respect, we can cite again [2] and [3], where simulation results are presented, with the intention of studying the gains potentially derived from traffic locality in P2P systems. Many other modeling and simulation works look at P2P overlay networks, combined with the difficulties of simulating the large size overlay networks of real systems [9] - [14]. An interesting approach is the one presented in [9], where a framework for P2P simulation environment, on top of existing packet-level network simulators, has been developed; the underlying layers seem to be considered in detail, even though this approach focuses on the packet level, which could not clearly scale to the size of a real P2P network. In [14] a survey of several P2P simulators revealed the lack of simulators, which could really be used for planning purposes. Well known scalable simulators are PlanetSim, Neurogrid and PeerSim, but they have different aims with respect to our work. In PlanetSim [11], developers can work at two main levels: creating and testing new overlay algorithms like Chord or Pastry, or creating and testing new services (DHT, CAST, DOLR, etc) on top of existing overlays. Neurogrid [12] can simulate many nodes (more than 300,000), but it is specifically developed for the study of application layer [13], not being developed for dealing with network layer traffic. PeerSim can simulate more than 1,000,000 nodes, it results very scalable and accurate for evaluating new P2P protocols at the application layer; however it has not been developed for studying the impact of traffic on the network layer. It is clear that scalability and network layer analysis are not well supported features of existing P2P simulators.

With this problem in mind, we have built an event driven P2P simulation model, able to represent both the application and the network layers and that can be used for simulating large overlay networks (we have successfully tested it with up to 500,000 peers). We focused our attention on the unstructured and decentralized Gnutella overlay network, which still represents an important point of reference in the P2P community. Many recent works on Gnutella network have stimulating our interest ([15], [16]), revealing that the fully decentralized paradigm of Gnutella still represents a reference architecture. As with all decentralized networks, the Gnutella network, such as the most recent Kad network [17], requires no official or common servers. As such, it cannot be disabled by shutting down a given subset of key nodes. Our model has the aim of studying the impact that such P2P systems have on the network layer performance. We start from the application layer, modeling the dynamics of peers, ultrapeers and files in the overlay network and we focus our attention on the results of file queries. We consider a positive query as a file transfer, and then we derive the number of file downloads and the average offered load generated in the network. We do not model the elastic behavior of network traffic and the

978-1-4244-1785-8

UNIVERSITAT POLITÈCNICA DE CATALUNYA

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Ph.D. Program: Artificial Intelligence

Peer–to–Peer Bartering: Swapping Amongst Self–interested Agents

David Cabanillas

Advisors: Steven Willmott

Barcelona, February 2009

Grade One

Barter vs. Money

Overview

Students share the book *Sheep in a Shop*, by Nancy Shaw, to learn about choice, making decisions, trade, and the barter system. They complete worksheets on comparing barter to the use of money in economic trade and using money in problem-solving situations.

Prerequisite Skills

Students should be able to recognize and count money amounts using dimes, nickels, and pennies.

Lesson Objectives

Students will be able to:

- Describe the barter system
- Compare barter with the exchange of goods for money
- Determine if a given number of dimes, nickels, and pennies is enough to pay for a specified item

Materials List

1. Book: *Sheep in a Shop*, by Nancy Shaw (Houghton-Mifflin, 1991)
2. Four tokens–two of one color and two of another
3. Play money coins: pennies, nickels, and dimes (NOTE: There should be enough pennies so that each student in the small groups has 42.)
4. One small cup for each student to hold the coins
5. Several small objects (toys, game pieces, markers, and crayons, etc.) that will be used for the small-group activity: "Shopping"
6. Blank stickers or price tags
7. Handouts:
   - **Barter or Money?** coloring sheet
   - **Using Money** worksheet

Content Standards

The activities in this lesson correlate to national standards in economics, math, and language arts. See the end of this lesson for content standards information.

Vocabulary

barter
choice
choose
cost
decision making
exchange
money
trade


Occupational Health and Safety in Construction Projects

Masoud Afzini, & Behnam Neyestani

ABSTRACT

Introduction

Just upload your form 16, claim your deductions and get your acknowledgment number online. Although this rule may vary by state at times due to special circumstances (like a global pandemic), the general rule of thumb is that you’re expected to pursue work leads every week and report your work search efforts in your weekly claim.Do you have COVID-19-specific questions about unemployment benefits and stimulus checks? 4. Our peers over at Ask.com have the answers. Efiling Income Tax Returns(ITR) is made easy with ClearTax platform. Texas, for example, waived their work search requirement for many months but reinstated it on November 1. Lack of common measure of value - In the absence of common measure of value or a unit of account, it was difficult to calculate the values of the goods exchanged. Photo Courtesy: skaman306/Moment/Getty Images Once your claim has been processed, you will need to make an appointment at your nearest American Job Center for your state or set up an account online. These state-run agencies give people access to job listings and career training resources, and registration is mandatory to receive your unemployment insurance benefits. It depends on the reason you were fired, and the rules vary by state. It was difficult to compare 2 litres of milk with 2 kgs of onions. Lack of double co-incidence of wants. Exchange became difficult in the case of goods which could not be compared, e. During this interview, you will be asked specific questions about your employment background and other information mentioned in your claim. Invention of money is one of the most fundamental invention. Nearly all unemployment agencies accept claims online, especially in light of the COVID-19 pandemic. 1. Problem of making deferred payments. Long story short, where you’re currently residing might not be the state that will pay you unemployment benefits if you haven’t lived there long. When people used to borrow cattle, it was difficult to return the cattle in the same physical conditions, after a certain number of years. 5. If you lost your job due to the pandemic or other reasons, here are the steps to take next to file an unemployment claim online.Step 1: Contact Your State Unemployment AgencyWhether you were laid off because of the pandemic or lost your job due to other unforeseen circumstances, filing for unemployment benefits is one way to cover a portion of your monthly bills while you’re between jobs. Difficulties in Barter Exchange : (Barter System) 1. The state agency will provide guidance on that as well as any other issues that could impact your claim.Step 2: Determine Your EligibilityAs stated earlier, you need to meet certain criteria in order to be eligible for unemployment benefits. 3. Moreover, if you willingly quit your job, are an independent contractor or otherwise self-employed, or can’t go back to work for health or other reasons, you might not qualify. 2. ClearTax can also help you in getting your business registered for Goods & Services Tax Law. CAs, experts and businesses can get GST ready with ClearTax GST software & certification course. You can efile income tax return on your income from salary, house property, capital gains, business & profession and income from other sources. Our GST Software helps CAs, tax experts & business to manage returns & invoices in an easy manner. was difficult, besides there were space constraints. Additionally, if your application is denied for any reason, you have the right to file an appeal to try to overturn the denial.Step 3: Verify Your IdentityDuring the initial application process, each state’s unemployment division will ask you to verify and authenticate your identity. Download ClearTax App to file returns from your mobile phone. 4. Photo Courtesy: Witthaya Prasongsin/Moment/Getty Images Due to the COVID-19 pandemic, unemployment rates rose sharply in the United States in the spring of 2020. 3. g.. While you may be breathing an initial sigh of relief once your initial claim is processed, be sure to maintain your eligibility status by continuing your job search as directed.Step 6: File Your Weekly Payment Request and Keep Up the Job SearchOnce you start receiving unemployment benefits, you have to file weekly or biweekly (varies by state) payment requests online to be paid — no exceptions. Our experts suggest the best funds and you can get high returns by investing directly or through SIP. Our Goods & Services Tax course includes tutorial videos, guides and expert assistance to help you in mastering Goods and Services Tax. Save taxes with ClearTax by investing in tax saving mutual funds (ELSS) online. Even worse, months later, many jobless people were still desperately trying to cut through all the red tape and the massive volume of people to file their own unemployment claims. If you want to make sure your claim isn’t delayed, be sure to complete all the sections fully and accurately. These types of requests are typically very time sensitive. Photo Courtesy: Justin Sullivan/Getty Images In some cases, an unemployment official will interview you to clarify and verify details regarding your case and your identity. Problem of indivisibility. Loading PreviewSorry, preview is currently unavailable. At the same time it was difficult to compare certain units of a commodity with any service. If you’re wondering how to file a claim after all the changes, we can help you figure it out. Difficulty of storage of goods - Under barter exchange, it was necessary to store goods for future consumption. MORE FROM ASKMONEY.COM Photo Courtesy: JGI/Tom Grill/Getty Images After you’ve lost your job, contact your state unemployment agency as soon as possible. e.g. Person "A' has cloth and he wants rice in exchange and the person `B' has wheat and he wants milk in exchange. Set up email notifications, if possible, and watch closely for any messages requesting additional information. If you have any difficulty locating your local center, contact your state unemployment agency for assistance. (Exceptions are currently in place to qualify independent contractors and the self-employed, but those rules expire at the end of 2020.) Photo Courtesy: Stefan Wermuth/Bloomberg/Getty Images Each state has different compliance requirements with respect to minimum wages and working hours, so we recommend consulting your state’s unemployment agency for details. Further you can also file TDS returns, generate Form-16, use our Tax Calculator software, claim HRA, check refund status and generate rent receipts for Income Tax Filing. Photo Courtesy: SDI Productions/E+/Getty Images When you file your claim, you will be asked for some personal information, including your name, address(es), social security number (SSN), last 18 months of employment history, a record of wages earned and the reason and dates for your employment termination. 5. Difficulty of storage of goods. Finally, keep in mind that unemployment benefits are taxable, so it’s generally wise to choose to have taxes withheld from each payment when you first open your claim.Step 5: Collect Your Unemployment BenefitsMost claims are processed within two to three calendar weeks or 10 business days, although delays could occur during times of high claim volumes. Virtual systems also reduce errors and speed up the claim process. Depending on the state you reside in, you will be eligible to apply for unemployment benefits online, in person, on the phone or by mailing in a claim form. You’ll be required to answer some questions about any work you completed each week as well as any other income you received. Lack of double co-incidence of wants was one of the important limitations of Barter system. Storage of highly perishable goods like fish, vegetables, milk etc. In this case exchange between `A' and `B' would not take place as both are not in need of each other's goods. In some cases, people who were fired, suspended or asked to take a leave of absence don’t qualify for unemployment. Without a doubt, the ongoing pandemic throws a bit of a wrench into the process of actively seeking work, so that component may vary from state to state and could change at any time. These steps may take place as you’re filing your application, or they could be the last steps in determining your eligibility. Photo Courtesy: svetikd/E+/Getty Images Finally, it’s important to keep in mind that unemployment benefits are usually contingent upon a recipient doing their part to actively look for a new job. Lack of double co-incidence of wants - Double co-incidence of wants indicates need of each other's goods and willingness to accept it. If you fail to file your weekly claim, your benefits may be delayed or stopped altogether. You can download the paper by clicking the button above. Thus, various difficulties faced under the Barter System gave rise to money. In most cases, you will file a claim with the state where you most recently worked, but if you recently relocated from another state, that may not be the case. Problem of indivisibility - Under barter system, it was difficult to make fractional payments, especially when things to be exchanged were indivisible e.g. Person `X' had a bag of rice which he wanted to exchange for a plough, with person `Y', but suppose `Y' wanted only half a bag of rice, then it would be difficult to offer half of the plough. ClearTax offers taxation & financial solutions to individuals, businesses, organizations & chartered accountants in India. To qualify for unemployment, an individual who lost their job must be eligible for work, able to work and actively seeking employment. 2. If you fail to answer the questions correctly — or don’t consent to this process — you will most likely be asked to provide the agency with documents that verify your identity.Step 4: File Your ClaimOnce you confirm your eligibility, it’s time to file your claim. Since those early days of chaos, most states have adapted and made improvements to handle all the claims. The online process isn’t just helpful for pandemic safety reasons. Several states conduct telephone interviews before the final ruling to help prevent potential unemployment insurance fraud. By the end of April, a staggering 30 million Americans had filed for unemployment benefits. Lack of common measure of value. ClearTax serves 1.5+ Million happy customers, 20000+ CAs & tax experts & 10000+ businesses across India. Problem of making deferred payments - Deferred payments are those which are made in future.

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