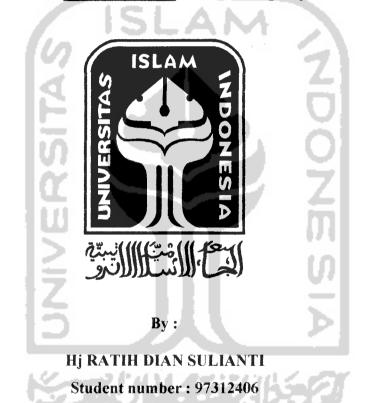
THE EFFECT OF CASH FLOW INFORMATIONS TO THE STOCK PRICE OR THE STOCK TRADING VOLUME ON THE JAKARTA STOCK EXCHANGE DURING THE MONETARY CRISIS

A THESIS

Presented as Partial Fulfillment of the Requirements to Obtain the <u>Bachelor Degree</u> in Accounting Department

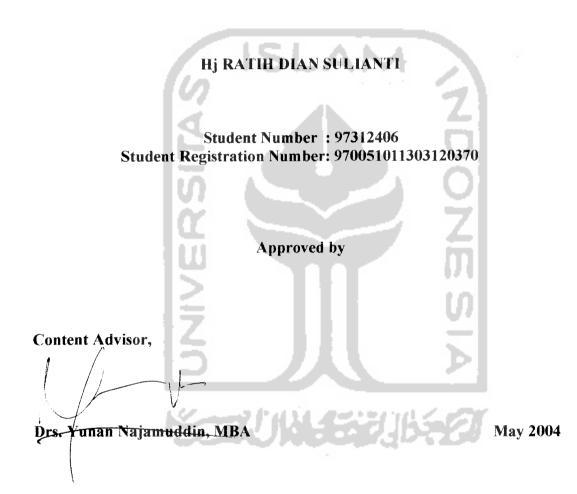


Student registration number: 970051011303120370

DEPARTMENT OF ACCOUNTING INTERNATIONAL PROGRAM FACULTY OF ECONOMICS ISLAMIC UNIVERSITY OF INDONESIA YOGYAKARTA 2004

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By



Language Advisor,

Ani Pujiastuti, S.Pd

May 2004

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A BACHELOR DEGREE THESIS

By

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Yogyakarta, May 2004

Hj Ratih Dian Sulianti

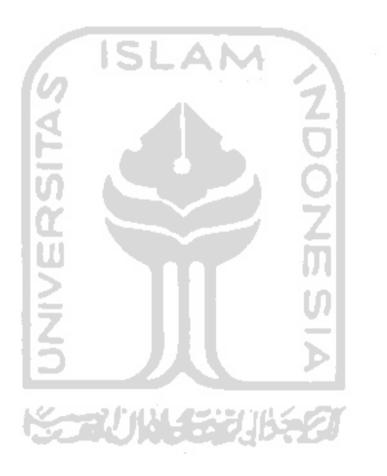
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ABSTRACTS

Hj Ratih Dian Sulianti (2004). The Effect of Cash Flow Informations to The Stock Price or The Stock Trading Volume on The Jakarta Stock Exchange During The Monetary Crisis. Accounting Department, Economic Faculty. Universitas Islam Indonesia. Yogyakarta.

The Indonesian Institute of Accountant (IAI) published the Statement of Financial Accounting Standard (PSAK) no. 2 concerning the Cash Flow Statement which obliges companies to publish the statements of cash flow began in January 1st, 1995.

The objective of this research is to examine the effects of cash flows information to the stock price or stock trading volume on the Jakarta stock exchange for the year 1998 until 2003.

There are 10 firms which are listed in Jakarta stock exchange that are included in LQ45 and active traded were taken as the data in this research. The data from audited financial statements from 1998 until 2003 were taken from Jakarta stock exchange corner in Universitas Islam Indonesia. Yogyakarta. The statistic method used to test hypotheses is Bivariate Linear Regression and Multiple Regression analysis.

The empirical results indicated that there are no significant effects between cash flows information which consist of cash flow from operating activities (CFOp), cash flow from investing activities (CFIn), cash flow from financing activities (CFFi), and the total of cash flow component (CFOp), (CFIn), (CFFi) to stock price in Jakarta stock exchange and also there are no significant effects among CFOp, CFIn, CFFi and total of CFOp, CFIn, CFFi to stock trading volume in Jakarta stock exchange for year 1998 until 2003. The reason was that almost the investors in Indonesia just speculate in investing their fund especially during monetary crisis which is hit Indonesia. The investors tend to see rumors, politic condition, investing trend and so on than using cash flow information as a consideration tool in making their investment decision.

ABSTRAK

Hj Ratih Dian Sulianti (2004). Pengaruh Informasi Arus Kas pada Harga Saham atau Volume Perdagangan Saham di Bursa Efek Jakarta Selama Krisis Moneter. Jurusan Akuntansi, Fakultas Ekonomi. Universitas Islam Indonesia. Yogyakarta.

Ikatan Akuntansi Indonesia (IAI) mengeluarkan Pernyataan Standar Akuntansi Keuangan (PSAK) nomer 2 mengenai keharusan perusahaan menyusun laporan arus kas dimulai pada 1 Januari 1995.

Tujuan dari penelitian ini adalah untuk menguji pengaruh informasi arus kas pada harga saham atau volume perdagangan saham di Bursa Efek Jakarta tahun 1998 sampai dengan 2003.

Penelitian ini mengambil data sebanyak 10 perusahaan yang terdaftar di Bursa Efek Jakarta yang termasuk saham LQ45 dan aktif di perdagangkan. Data laporan keuangan yang telah diaudit diambil dari pojok Bursa Efek Jakarta di Universitas Islam Indonesia, Yogyakarta. Metode statistik yang digunakan untuk menguji hipotesa yang ada adalah Analisis Regresi Linear Dua-Variabel dan Analisis Regresi Majemuk.

Hasil dari penelitian ini menunjukan bahwa tidak ada pengaruh signifikan antara informasi arus kas yang terdiri dari arus kas dari aktivitas operasi (CFOp), arus kas dari aktivitas investasi (CFIn), arus kas dari aktivitas pendanaan (CFFi) dan total komponen arus kas yang terdiri dari (CFOp), (CFIn), (CFFi) pada harga saham atau volume perdagangan saham di Bursa Efek Jakarta pada tahun 1998 sampai dengan 2003. Ini disebabkan oleh banyaknya penanam modal di Indonesia hanya berspekulasi dalam menginvestasikan dananya khususnya selama krisis moneter yang melanda Indonesia. Pemodal cenderung untuk melihat rumor, situasi politik, trend investasi dan sebagainya dari pada menggunakan informasi yang terkandung pada laporan arus kas sebagai bahan pertimbangan pemodal dalam mengambil keputusan investasi.

CHAPTER I

INTRODUCTION

1.1. Background of the Study

Monetary crisis which hit Indonesia and other countries in Asia area around July 1997 has given the bad impact especially for our economics matters. This condition has influenced in all business sectors in Indonesia both for go public enterprise as well as for government or private company. Monetary crisis in Indonesia was stimulated by from the market speculator acts that has caused the Rupiah's is depreciated from around Rp 2444 for \$ 1 to become around Rp 8000 in the end of 1997.

One of the institutions which got impact from monetary crisis is stock exchange. The stock exchange has a close connection and parallel relationship with the economy condition of the country; it is the reason why the stock exchange activities depend on the economics condition.

Market share is one of the alternatives for the company to get fund or other capital and also as an effective media to distribute and invest the fund which enables the investor to get a profit or benefit. Before someone or a company invests their fund in share, it needs some analysis, whether the investments are suitable or not, or whether or not it can yield profit.

Financial reporting presents information which is need by investors and other users in making rational investment. Financial reporting system which generates financial information for external users encompasses four principal financial statements: balance sheet, income statement, statement of cash flow, and statement of stockholder's equity. Offering statement of cash flow can help the investor or other users in assessing the amounts, timing, and uncertainty of prospective cash receipts from dividends and the proceed from the sale or buy securities.

Statement of Financial Accounting Concepts (SFAC) No: 1 identifies the objectives of financial reporting by business enterprise. One of them is preparing information about cash flow prospect to help investor and creditor in evaluating the prospect of cash flow of certain company (SFAC 1978: Para 37-39). Statement of Financial Accounting Standard (SFAS) No: 95 about Statement of Cash Flow recommended entering the cash flow statement as a part of financial statement with the aim of giving potential benefit from the cash flows to estimate company liquidity, flexibility of risk and return finance (SFAC No: 95 Para 52). In *Standar Akuntansi Keuangan* (SAK) No: 2 it is stated that company must arrange the statement of cash flow and provide this statement as an integral part of financial statement for certain period.

This research is the replication of research by Lena Tan Chooi Yen (1999). Besides, regarding *Standar Akuntansi Keuangan* (SAK) No: 2, Cash Flow Statement as a part of the financial statement is compulsory to be published since 1st of January 1995, the writer is inspired to investigate the effects of cash flow information to stock price or stock trading volume on Jakarta stock exchange during monetary crisis because the regulation about

the compulsoriness of doing cash flow statement on financial statement in Indonesia is relatively new, so the statement of cash flow is rarely inserted on it. And also there has been no research yet about the effects of cash flow components to stock price or stock trading volume during monetary crisis in Indonesia. This research will examine the effect of information of cash flow to stock trading volume or stock price in Jakarta stock exchange during the monetary crisis.

1.2. Problem Identification

The objectives of financial reporting should provide information that is : (1) useful to those making investment and credit decision that have a reasonable understanding of business and economic activities; (2) helpful to present and potential investors, creditors, and other users in assessing the amounts, timing and uncertainty of future cash flows; and (3) about economic resources, the claims to those resources, and the changes in them. (Kyeso and Wygant, 2001).

Many people in the world admit that stock market can be a good mean to mobilize their fund if it is handled with professionally. The factors that may influence stock market are all informations including rumors about the companies which listed in JSX, our country political prudence, stock supply and demand, international economy condition and so on. Therefore, it is important for us to know about the effects of cash flows information to the stock trading volume or stock price on Jakarta stock exchange during monetary crisis which was happened in Indonesia.

1.3. Problem Formulation

Based on the problems identification, the problems are formulated as follows:

- Do the cash flow informations have effects on stock price in Jakarta stock exchange from year 1998 to 2003?
- Do the cash flow informations have effects on stock trading volume in Jakarta stock exchange from year 1998 to 2003?

1.4. Limitation of Research Area

The data of this study are LQ45 stocks which are listed in Jakarta stock exchange since 1998 to 2003.

1.5. Research Objectives

The objective of this research is giving the empirical evidences whether the cash flow information can affect the stock price or the stock trading volume in Jakarta stock exchange in year 1998 until 2003.

1.6. Research Contributions

 The purpose of this research is to explore more about cash flow information especially its effects to stock trading volume and stock price in Jakarta stock exchange. 2. This research will also be useful for many parties who will take investment decision or just want to know about cash flow information related with the stock trading volume and stock price in Jakarta stock exchange.

1.7. Definition of Terms

In order to avoid the confusion in understanding the keywords in this thesis, below are the explanations describing the terms used in this study.

1. The statement of cash flows.

A primary financial statement that reports the cash receipt, cash payment and net change resulting from the operating, investing, and financial activities of and enterprise during a period in a format that reconciles the beginning and ending the cash balance. (Kyeso and Wygant 1987; 114).

2. Information content of cash flow statement.

Relevant information about cash receipt and cash payment of an enterprise, the statement of cash flows reports (1) the cash effects of operations during a period, (2) investing transaction, (3) financing transaction, and (4) the net increase or decrease in cash during the period.¹ (Kyeso and Wygant 2001; 206)

¹ The basis recommended by the FASB is actually "cash and cash equivalent." Cash equivalents are short term, highly liquid investments such as treasury bill, commercial paper, and money market funds purchased with cash that is in excess of immediate needs.

- 3. Component of cash flows.
 - (1) Operating activities, involve the cash effects of transactions that enter into the determination of net income.
 - (2) Investing activities include making and collecting loans and acquiring and disposing of investments (both debt and equity) and property, plant, and equipment.
 - (3) Financing activities, involve liability and owners' equity items. They include (a) obtaining resources from owners and providing them with a return on (and a return of) their investment and (b) borrowing money from creditors and repaying the amount borrowed. (Kyeso and Wygant 2001; 207)
- 4. Stock

Share of ownership of a corporation. (Warren, reeve, and fess 2002; glossary)

5. Jakarta stock exchange.

An institution in Indonesia which has principal services to operated security trade activity at secondary market. (Hunan, 1994; 24)

6. LQ45 stock

Including the stock that has high market value and liquidity. Also consists of 45 elected stocks that can represent market. (E.A Koetin 1997;506).

CHAPTER II

REVIEW OF RELATED LITERATURE

2.1. Theoretical Review

The company financial statement provides information about the assets and liabilities of the firm and the income and cash flow generated by the firm. The impacts of transactions and other events are recorded in the relevant financial statement. The balance sheet shows assets, liabilities, and the equity account. The income statement reflects revenues, expenses, and gain and losses. Statement of stockholder equity reports capital transactions with owners. The statement of cash flow includes operating, investing, and financing inflow and outflow. Many transactions are reflected in more than one statements so that the entire set is required to evaluate the total impact.

2.1.1. The Statements of Cash Flow

A statement of cash flows is required as part of a full set of financial statements. It must be prepared in conformity with Generally Accepted Accounting Principles (GAAP). The statement is not required if the financial statement are prepared on a basis of accounting other than GAAP. The statement must be included in both annual and interim financial statement.

The statement of cash flows provided many benefits to the prepares and users of the statement, such as the following: enables the assessment of the amount, timing, and uncertainty surrounding future cash flows; furnishes a reconciliation between net income and cash flow from operation; provides the net effects of operating transactions on profit and cash flow; indicates the impact on the company financial status of its investing and financing transaction; shows the company ability to obtain financing; provides important information about the entity cash receipts and cash payments for the period; shows the company ability to generate recurring cash earnings; evaluates the company ability to pay debt when due; allows for the evaluation of the company ability to pay its expenses and conduct normal operation; shows the entity ability to pay dividends; and provides the reason for the change in cash and cash equivalent for the period.

Stephen (2001) stated that it is prohibited to present cash flow per share because doing so will give the false impression that such a statistic is as important as earnings per share, and the used of the term of funds should not be used because its ambiguity and misinterpretation.

2.1.2. The Method of Cash flow

There are two methods in preparing cash flow statement, direct method and indirect method. There are only a few literatures which discuss about three components contained in cash flow information. Many researchers only focus on operating activities on their research. The direct method is preferred by Financial Accounting Standard Board (FASB) statement number 95. Under this method companies present cash flow from operating activities by major categories of gross receipts and gross payments and the resulting net amount. A company using the direct method should report separately operating cash receipt and operating cash payment. The only difference between the direct method and the indirect method is the presentation in the operating activities section of the statement of cash flows. The investing and financing section are identical under both methods. The direct method enables the user to comprehend better the relationship between the company profit and its cash earnings. The direct method shows that the amount of the net cash received or used in operating activities during the year equals the difference between the total amount of gross cash receipts and total gross cash payments applying to operating activities.

The indirect method is commonly used by companies in financial reporting because its simplicity, although it is less preferred approach. The company presents net cash flow from operating activities indirectly, by adjusting earnings to reconcile net income to net cash flow from operations. The indirect method emphasis changes in most current asset and current liability accounts as they apply to operating activities. Changes in current assets and currents liabilities relating to investing or financing activities such as short term loans or short term notes payable not involving sales of goods or services should be presented as investing or financing activities. A disadvantage of the indirect method is possible user confusion to where the cash was received or paid to. The indirect method only shows adjustments to accrual basis net income to cash flow from operations in the operating activities section.

2.1.3. Cash Flow from Operating Activities

Operating activities apply to producing or selling merchandise or performing services. Under the direct method, items applying to income statements are presented in the operating activities section.

Cash inflows from operating activities include cash receipts from sales or servicing such as from customers, licenses, and lessees; interest and dividend receipts; proceeds received from insurance policy; refunds from suppliers; sale of trading securities; award received from a lawsuit; and other operating receipt.

Cash outflows from operating activities include cash paid to buy materials and merchandise purchases; cash paid for services; payment of general and administrative expenses; employee salary payments; payments to suppliers; insurances payments; advertising and promotion payments; payment for lawsuit damages; cash refunds such as to customers for inferior goods; interest payments; income tax payments; cash purchase of trading securities; payment of duties, fines, and penalties; charitable contribution payments; and other operating cash payments.

2.1.4. Cash Flow from Investing Activities

Investing activities include making and collecting loans; purchasing and selling property, plant, and equipment; buying or selling available for sale or held maturity securities in other companies. But trading securities are considered operating activities.

Cash inflows from investing activities include proceeds received from selling fixed assets with the note that gain or losses on sales of fixed assets are included as investing activities along with the assets they relate to. These gain or losses are not included in net cash flows from operating items. Therefore, they need an adjustment to net income in obtaining cash flows from operation; selling available for sale or held maturity securities in other companies; and collecting on loans made to debtors.

Cash outflows for investing activities include acquiring fixed assets; buying available for sale or held to maturity securities of others companies; and granting loans to borrowers.

Cash flows for investing activities should only include advance payments, the down payments, or other payments at the date when fixed assets are bought, or shortly before and after. If there are principal payments on an installments loan at later dates, such payments are include in financing activities. Any non cash elements of a transaction to buy fixed assets such as through debt incurrence is disclosed in a supplementary schedule titled non cash investment and financing activities. (Stephen 2001)

He also said that if company is bought or sold under the purchase method to account for a business combination, any cash paid or received is considered an investing activity. The fair market value of any assets acquired or liabilities incurred in such a transaction would be presented in the schedule of non cash investing and financing activities.

2.1.5. Cash Flow from Financing Activities

Financing activities include issuing or repurchasing a company's own stock, (common or preferred stock), paying cash dividends to stockholders and issuing or paying back short term or long term debt.

Cash inflows from financing activities include fund received from issuing the company's own short term or long term debt for examples bond payable, notes payables, and mortgage payable; fund received from selling the company's own equity securities includes the subsequent reissuance of treasury stock.

Cash outflows for financing activities include purchase of treasury stock; cash dividend payments, with the note dividends declared but unpaid and stock dividends are non cash transaction and are presented in a supplementary schedule titled "non cash investing and financing activities"; retiring or paying off the principal on short term or long term debt includes payments of principal on capital lease obligations; other principal payments to long term creditors; and payment of debt issue costs.

Stephen (2001) expressed in his book that gain or losses from the early extinguishment of debt are part of the cash flow related to the repayment of the amount borrowed as financing activity. Such gains or losses are not an element of net cash flow from operating activities.

2.1.6. The Theories of Stock Price

There are two theories about the stock price. Both of them are the conventional theory and the confidence theory of stock price.

Richard (1992) in his book wrote that for many years, there has been a fundamental, orthodox, and conventional theory to explain the movement of stock prices and the basic cause of stock price movement in conventional theory is the anticipation of change in corporate earnings. According to conventional theory, all changes in fundamental condition are that they will affect the earnings of corporations, either individually or as a group. The change in earnings will affect the dividends. The belief is that earning is the most important single factor in determining stock prices. This theory recognizes that the price of stock is the present value of all anticipated future dividends. However those dividends can only come from earnings except for liquidating dividend. Change in earnings will change the dividend and it can affect the prices of stocks. In this theory, the stock price will move in advance of changes in business and in advance of changes in earning power. The theory considers that the dividends must follow earnings and will change as earnings change. Based on the conventional theory of stock price, any condition or situation that indicates a change in earnings of a particular company or a specific industry, or many companies, or the entire economy will affect stock prices, which will move in advance of actual changes in earnings and dividend.

The second theory is confidence theory. The stock movements in confidences theory is even less formalized than the conventional theory.

The confidences theory of stock prices stated that the basic factor in the movement of stock prices is the rise and fall of trader and investor confidence in the future of stock prices, earnings, and dividends. Not like the conventional theory which said the stock prices depend on earnings, the confidence explain that stock prices tend on the basis of market psychology rather than on statistical fundamentals. The follower of the confidence theory believe that the market not respond to statistics and economics data with any high degree of exactness. They believe that the market's indifferences to both good and bad news are often incredible. They aware that measurements of stock price levels such as price earnings ratios change constantly; sometimes they are very high sometimes very low but seldom unchanging. The follower this theory also stated that the market can do anything.

According to the confidence theory, if a sufficient numbers or traders and investors become optimistic about fundamental conditions or about prospects for an individual company they will buy stocks. If they become overoptimistic, they will buy stock until prices reach unwarranted levels, as measured by normal levels of prices, earnings, and dividends. On the opposite side, when they become pessimistic they will sell. If their pessimism becomes excessive, they will throw away the stock on the market until they fall to entirely unrealistic levels as measured by normal standard.

2.1.7. The Theory of Stock Volume

The old market axiom said that volume goes with the trend. Richard (1992), Volume is supposed to increase on rallies in bull market and to decline on reaction. In bear market volume should increase in reactions and shrink on rallies. Heavy volume at the end of a considerable movement in prices is believed to indicate the end of that trend and the turning point in prices. The popular theory of volume may be stated (1) the market is technically strong when volume increases on rallies and declines on reactions; (2) the market is technically weak when volume increases on reactions and declines on rallies.

If volume increases as price advance, the theory is that demand is still greater than supply or in other word buying forces are stronger than selling forces. This is why traders like to see increasing volume on a rising market. On the other hand, in bull market, if volume drops off as prices declines, this is good sign. It is indicates that the supply is falling off at lower prices and owners are unwilling to sell.

In bear market, volume is supposed to increase as prices drop because supply is increasing and stockholders want to unload. This shows that the market is weak. If volume drops off on temporary rallies, the market is still weak because no larger amount of buying is entering the market.

2.2. Theoretical Framework

There are several literatures about cash flows, stock price and stock trading volume that the writer used in supporting this thesis whether from Indonesian or western research.

A number of previous studies (e.g. Rayburn 1986, Wilson 1987, Bernard and Stober 1989, Sloan 1996), focus on accrual and cash flow analysis. Rayburn's (1986) studied addresses the association of operating cash flow and accruals with security returns. Rayburn used an association methodology to assess the ability of operating cash flow and accrual data to explain relative change in return over the year. Rayburn tested five hypotheses of the association. The first two hypotheses are the association between security returns and (1) operating cash flows after controlling for the association between aggregate accruals and security returns, (2) aggregate accruals after controlling for the association between operating cash flows and security returns. The other three hypotheses are the association between security returns and (1) current accruals, (2) depreciation, and (3) changes in deferred taxes, all after controlling for the association of operating cash flows and the other components of accruals with security returns. With used cross sectional regressions to test the hypotheses, the result of the study indicated that there is association of both operating cash flow and aggregate accruals with abnormal returns.

Wilson (1987) examined the incremental information content of the accrual and fund components of earning beyond earnings itself. The information content is measured by using regression and portfolio approaches with used two stage procedures. In the first stage, accounting forecast equation are estimated cross sectionals. In the second stage, the association between residuals from the first stage regression and market model prediction errors is determined. Estimated the coefficients in the accounting prediction equations are based on 462 firm year observations for 1981 until 1982. Test that required returns from financial statement release

date are based on the 379 firms' year observations which consist of 322 late releases and 57 early releases firm year observations. Result of the study indicate that incremental total accruals and cash from operation, taken together, have incremental information content beyond earnings and that is a positive association between this component information and stock returns. The information about the cash and non cash components of earnings is precisely same after controlling for earnings. One correlated variable in the annual report, the current year capital expenditure is partly controlled. And there could be other correlated variables beside there could be uncorrelated items in the annual report that have information content.

Bernard and Stober's (1989) study extended the study of Wilson (1987) in two ways. First Bernard and Stober assessed the generality and robustness of Wilson's result by conducting the same tests. Second, they examined progressively more contextual models of the implications of cash flows and accruals. Bernard and Stober argued that cash flows to accruals might arise under certain macro economics conditions. The macro economic condition in their study included the periods of economic downturn and the periods of economics improvement. The proxies used for the first condition are the low unexpected GNP growth and high unexpected short term interest rate (on 90 days Treasury bill), and vise versa. They also argued that the nature of cash flows and accruals data varies according to which specifics accrual accounts are unexpectedly high or low. The sample of the study is from 170 firms with period from 1977 until 1984. By applying OLS estimation they estimated models for cash flows and working capital. And the result is failed to support hypothesis that the cash flows to accruals arise under certain macro economic conditions. Bernard and Stober also failed to find support for the hypothesis that the nature of information conveyed by cash flow and accruals data varies according to specific accruals accounts are unexpectedly high or low. Thus, the results indicated that the contextual factors do not successfully explain the behavior of stock prices around the release of cash flow and accrual data in the financial statements.

Ali (1994), in his study used a model that allows nonlinear relations between returns and three performance variables, they are earnings, working capital from operational [WCFO], and cash flows. This model is justified if the persistence of the unexpected component of each of the three variables declines with the absolute value of that component. The result of this studied is consistent with the proposed nonlinear relation between returns and unexpected earnings, unexpected WCFO and unexpected cash flow and with the existence of incremental information content of all three variables (earnings, working capital from operations and cash flows). These results are robust to portfolio based analyses and to outliner three treatments. He suggested that the power of test of incremental information content of some of the other non earnings data could be increased by allowing the security price responses to the unexpected components of the data to vary with the absolute value of the components. Catherine (1994) in her paper examined the value relevance of earnings by testing their ability to predict two future benefits of equity, investment, earnings and cash flow from operation. She used annual data from 1935 until 1987 for 50 firms and she used time series methods to test firm specific predictive ability over the entire time period and then compare out of sample forecast errors to assess earnings ability to improve earnings or cash flow forecasts up to eight years ahead. She found that earnings are a significant predictor of future earnings. Test about the ability of earnings to predict future cash flows from operations showed that earnings used alone and together with cash flow are a significant predictor of future cash flow.

Sloan (1996) examined whether stock prices reflect information about future earnings contained in the accrual and cash flow components of current earnings. Sloan proposed four testable hypotheses. The first hypothesis is earnings performance attributable to the accrual component of earnings is less persistent than earnings performance attributable to the cash flow component of earnings. The second hypothesis is whether stock price reflect the different properties of the accruals and cash flow component of earnings. The third hypothesis is a trading strategy a long position in the stock of firms reporting relatively low levels of accruals and short position in the stock of firms reporting relatively high levels of accruals generated positive abnormal returns. The fourth is that the abnormal returns predicted in the third hypothesis are clustered around future earnings announcement dates. Sloan used sample of 40,679 firm year observations from the financial statement data for 30 years, beginning in 1962 and ending in 1991. Firms included in the sample do not included banks, life insurance or property, and casualty companies because the financial data required computing operating accruals are not available for those firms. The result of the study indicated the lower persistence of earnings performance attribute to the accruals component of earnings than the cash flows component. Firms with relatively high levels of accruals experience negative future abnormal stock returns that are concentrated around earnings announcements, and firms with low levels of accruals experience positive future abnormal returns.

Beza and Na'im (1998) with their article title "The Information Content of Annual Earning Announcements a Trading Volume Approach" investigated 30 active companies in year 1995 which is listing in Jakarta stock exchange. They used audited financial statement for year 1994 as sample and the samples did not announcement the annual earning also others news. The result of their study was an increasing in stock volume significantly after annual earnings announcements. And they argued that the investors will change their belief to the company which announced annual earning.

Hastuti and Sudibyo (1998) in their article "Pengaruh Publikasi Laporan Arus Kas terhadap Volume Perdagangan Perusahaan di Bursa Efek Jakarta, took 37 companies which are listing on Jakarta stock exchange as the samples and the stock should be active traded, already go public before December 31st 1991 and made the cash flows statement on its financials statement on December 1993. The observation period was 1991 until 1994. The result of their analysis, there was no market reaction in the form of the average change of stock trading volume in year 1991 and 1994 while financial statement publication for year 1993 and 1994 happened market reaction in the form of increased in stock trading volume. Their research gave empirical evidences that investors already used information which is contain in financial statement on December 1993 and 1994 for investing decision.

Lena Tan Chooi Yen (1999) surveyed whether the information provided from cash flow statement influence investors in making investing decision for year 1996 and 1997. The total sample were used in her study are 39 companies from manufacturing firms listed in the Jakarta stock exchange. The statistics method used to test four hypothesis is a linear multiple regression underlying the method of ordinary least square (OLS). She stated that first hypothesis is no effects between cash flow of operating with stock volume, second hypothesis is no effect between cash flow of investing with stock volume, third hypothesis is no effect between cash flow of financing with stock volume and the last hypothesis is no effect among cash flows from operating, investing and financing with stock volume. The results of her study indicates that the cash flow information divided into three different activities thus cash flow of operating, investing and financing react significantly shown by the Fisher test to share volume. In the other hand, the value of Adjusted R Square shown that the portion or the percentage of the total variation of Y (share volume) explained by the regression model is low, which meant the investors bought the stock without really considering only the information contains in the financial statements but also other concern factors such as country risk, government policies and so on.

Bandi (2000) investigated the volume and price reaction associated with dividend announcements. The result of this study shows dependence between price and volume reaction. Price and trading volume is positively related. Although there is a relation between price and volume reaction around dividend announcements, the reactions are very relatively different in magnitudes. The relative magnitudes of price and volume reactions are extremely different for 32.88 percent of these sample dividend announcements, relatively similar reactions for 30.87 percent and the remaining 36.24 percent shows relatively intermediate reaction.

Triyono (2000) examined the association of information content of totals cash flows, components of cash flows, and accounting income with stock prices or stocks returns. He also compared the predictive power of between of totals cash flows and accounting income with their relation to stock price or stock return. He was taken 54 manufacturing firms listed in Jakarta stock exchange as a sample using a purposive sampling method. Data from audited financial statements were taken from Indo exchange files. The statistic method used to test hypotheses is a linear multiple regression. Two models were considered levels and return models. The empirical results indicated that disaggregation the total of cash flow into their components as

required by PSAK no.2 has significant associated with stock prices in the levels model. This means that the accounting authority has correctly mandated the publication statements of cash flows. In contras, the result of his study indicated that total cash flows, component of cash flows and accounting income are not associated with stock returns in the return model.

AM

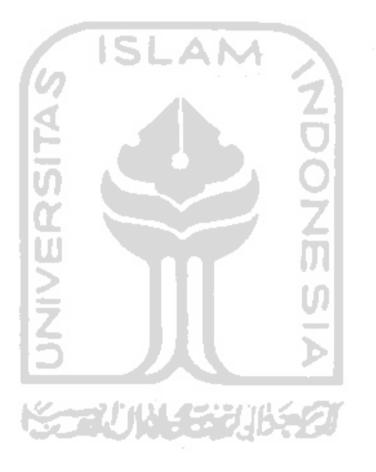
2.3. Hypotheses Formulation

hypotheses For mutation							
The hypothesis formulation used in this research are,							
1a =	no effects between cash flow from operating activities						
5	(CFOp) with stock price.						
1b =	no effects between cash flow from operating activities						
H.	(CFOp) with stock volume.						
5							
2a =	no effects between cash flow from investing activities						
5	(CFIn) with stock price.						
2b =	no effects between cash flow from investing activities						
19	(CFIn) with stock volume.						
	2a =						

Hypothesis	3a =	no effects between cash flow from financing activities
		(CFFi) with stock price.

3b = no effects between cash flow from financing activities (CFFi) with stock volume.

- Hypothesis 4a = no effects between CFOp, CFIn, and CFFi with stock price.
 - 4b = no effects between CFOp, CFIn, and CFFi with stock volume.



CHAPTER III

RESEARCH METHOD

3.1. Research Method

This research applied quantitative data analysis to examine the relation between cash flow from operating activities, investing activities, and financing activities with stock prices or stock volume in Jakarta stock exchange. Quantitative analysis is a characteristic of variables when the value is stated in the numerical forms.

3.2. Research Subject

The companies included in LQ45 stocks that are listed in Jakarta stock exchange is the subject of this research. The companies which are included in LQ45 should be active traded in Jakarta stock exchange and their financial statements are already audited, with the observation period is since January 1998 until December 2003.

3.3. Research Instrument

The data is collected from the secondary data in the Jakarta stock exchange corner in Indonesian Islamic university, Yogyakarta. The secondary data means that the data have been previously collected for some project other than the one at hand (Zikmund, 1999). Data collection and the sources of data are described below:

- The data for LQ45 stocks are gathered from Jakarta stock exchange corner on the 3rd floor in Indonesian Islamic university.
- The stock price is collected from the Jakarta stock exchange corner on the 3rd floor in Indonesian Islamic university.
- 3. The shares trading volume is found out from the Jakarta stock exchange corner on the 3rd floor in Indonesian Islamic university.
- 4. The amount of cash flow from operating activities, cash flow from investing activities, and cash flow from financing activities are gathered from company's financial statement that provide at Jakarta stock exchange corner on the third floor in Indonesian Islamic university.

All of the data above are obtained in Jakarta stock exchange. Meanwhile, the data are gathered by downloading from the computer on the Jakarta stock exchange corner on the third floor in Indonesian Islamic university, Yogyakarta.

3.4. Research Variables

The independent variables in this research are:

- 1. Cash flow from operating (CFOp) for hypothesis 1a and 1b,
- 2. Cash flow from investing (CFIn) for hypothesis 2a and 2b,
- 3. Cash flow from financing (CFFi) for hypothesis 3a and 3b,
- 4. And cash flow from operating (CFOp), cash flow from investing (CFIn) and cash flow from financing (CFFi) for hypothesis 4a and 4b.

The cash flows from operating, cash flows from investing, and cash flows financing are components of cash flows which are stated in PSAK no.2 about Cash Flow Statement.

The dependent variables in this research are:

1. Stock price (SP) for hypothesis 1a, 2a, 3a, and 4a.

The stock price is closing price at observation period on the Jakarta stock exchange.

2. Stock trading volume (SV) for hypothesis 1b, 2b, 3b, and 4b.

The stock volume is the total stock which is traded daily on the Jakarta stock exchange.

3.5. Research Procedures

It is important to set up research procedures in order to answer the research problems. The procedures were arranged as follows;

- Doing the statistical test to find out whether there was a significant variation on the relationship among those variables.
- 2. Analyzing and interpreting the data.
- 3. Acquiring conclusions and any other findings.

3.6. Technique of Data Analysis

Zikmund (1999) in his book said that data is recorded measures of certain phenomena.

The data in this research must fulfill the following criteria:

 The companies listed in Jakarta stock exchange before December 31st 1998 because the period in this research is the financial statement that is audited since year 1998 until 2003.

The data obtained by downloading the Jakarta stock exchange corner in Indonesian Islamic university.

 The LQ45 stocks as the data should be actively traded in Jakarta stock exchange. The observation period for active stocks is from 1998 until 2003.

The data were also taken by downloading the Jakarta stock exchange corner in Indonesian Islamic university. After the data for LQ45 in Jakarta stock exchange since 1998 until 2003 is obtained, the writer did selection for those stocks in order can get the active LQ45. The active criterion in this case means that those stocks must be actively traded in all periods from 1998 until 2003 both in first section and second section, because one period consists of two sections. The first section is from February until July and the second section is from August until January.

Meanwhile, the results will appear as follows:

NO.	STOCK	STOCK NAME	LISTING
	CODE	STOCK NAME	DATE
1	ASII	ASTRA INTERNATIONAL Tbk.	April 1990
2	BMTR	BIMANTARA CITRA	July 1995
3	GGRM	GUDANG GARAM	August 1990
4	HMSP	HM SAMPOERNA	August 1990
5	INDF	INDOFOOD SUKSES MAKMUR	July 1994
6	KLBF	KALBE FARMA	July 1991
7	MPPA	MATAHARI PUTRA PRIMA Tbk.	December 1992
8	TINS	TIMAH Tbk.	October 1995
9	RALS	RAMAYANA LESTARI SENTOSA Tbk.	July 1996
10	ISAT	INDOSAT	October 1994

Table 3.1 The Companies which is used in This Research

3.6.1. Basic Model

This research used Bivariate Linear Regression for hypothesis 1a, 1b, 2a, 2b, 3a, and 3b means a measure of linear association that investigates a straight-line relation of type $Y = a + \beta X$, where Y is the dependent variable, X is independent variable, and a and b are two constants to be estimated. Meanwhile the hypothesis 4a and 4b are using Multiple Regression analysis in order to know the effects of cash flow components to stock price or stock volume. Multiple Regression analysis is an analysis of association that simultaneously investigates the effect of two or more independent variables on a single, intervalscaled or ratio-scaled dependent variable (Zikmund, 1999). The Multiple regression model is written as:

$$Y_i = \beta_0 + \beta_1 X_{1i} + \beta_{2i} + \dots + \beta_k X_{ki} + \varepsilon_i$$

Where :

 Y_i = dependent variable or endogenous variable

X's = independent (explanatory) variables or exogenous variables β 's = the unknown parameters

 β_0 = the parameter on the constant

 β_1 Through β_k = the partial regression coefficient

 ε_i = random disturbance term ε is added to the regression model to capture unobservable and random effects that affect Y.

The β 's measure the effect of a one unit change in X on the dependent variable Y, holding all variables constant. For example, β_1 measures the impact of one unit change in X_1 on Y, while holding X_2 through X_k constant. In other words, it gives the slope of equation with respect to X_1 holding X_2 through X_k constant.

The specifications from both of the models are written as follows:

The Simple Linear Regression model will be used to examine hypothesis 1a and 1b,

$$Y1_{ii} = a + b_1 CFOp + e_{ii}$$

$$Y2_{ii} = a + b_1 CFOp + e_{ii}$$

The model to examine hypothesis 2a and 2b,

$$Y1_{ii} = a + b_2 CFIn + e_{ii}$$
$$Y2_{ii} = a + b_2 CFIn + e_{ii}$$

The model to examine hypothesis 3a and 3b,

$$Y1_{it} = a + b_3 CFFi + e_{it}$$
$$Y2_{it} = a + b_3 CFFi + e_{it}$$

And the Multiple Regressions Model is used to examine hypothesis 4a and 4b,

$$Y1_{ii} = a + b_1 CFOp + b_2 CFIn + b_3 CFFi + e_{ii}$$
$$Y2_{ii} = a + b_1 CFOp + b_2 CFIn + b_3 CFFi + e_{ii}$$

Where,

$$Y2_{it}$$
 = average of *i* stock trading volume change to *t* period

CFOp = average of *i* cash flow change from company operational activities to *t* period

1 - 1

 b_1, b_2, b_3 = variable coefficient

 $e_{it} = i$ disturbance variable of company to t period

3.6.2. Hypothesis Testing

The hypothesis testing can be stated based on the previous study and the hypothesis formulation is as follows:

- H la : the cash flows from operating activities have no effects to stock price.
- H 1b : the cash flows from operating activities have no effects to stock trading volume.

For second hypothesis:

- H 2a : the cash flows from investing activities have no effects to stock price.
- H 2b : the cash flows from investing activities have no effects to stock trading volume.

The third hypothesis:

- H 3a : the cash flows from financing activities have no effects to stock price.
- H 3b : the cash flows from financing activities have no effects to stock trading volume.

The fourth hypothesis:

- H 4a = there is no effects between CFOp, CFIn, and CFFi with stock price.
- H 4b = there is no effects between CFOp, CFIn, and CFFi with stock trading volume.

The writer will use *student-t* test in determining the independent variables that are most influential to stock price or stock trading volume. Meanwhile to examine the model accuracy the writer used Fisher test (F-test). In examining the closeness between dependent variable and independent variables can be obtained by finding R² value (coefficient of determination). If R² is closed to 1 so the closeness level from that model is higher. Moreover, the data is processed by using SPPS (Statistical Package for Social Science) computer software.



CHAPTER IV

RESEARCH FINDINGS, DISCUSSIONS AND IMPLICATIONS

4.1. Research Description

This chapter will explain about the data collection process, research findings, discussion, and implication of all the variables used in this research.

4.1.1. Data Collection Process

The data for cash flows from operating activities, investing activities and financing activities since 1998 until 2003 were collected by downloading from computer in Jakarta stock exchange corner at the third floor in Indonesian Islamic university.

The data for stock price are taken from daily closing price in Jakarta stock exchange from 1998 until 2003. It is gathered from Jakarta stock exchange corner in UII.

The data for stock trading volume are gotten from daily stock trading volume in Jakarta stock exchange since 1998 until 2003. And, the data also gathered from Jakarta stock exchange corner in UII.

The stock price and stock trading volume are taken daily but on the other side, the cash flow is collected annually, so it is important for the researcher to make the cumulative average for stock price and stock trading volume before putting and examining it into model in order represent stock price and stock trading volume annually.

The companies listed in Jakarta stock exchange since 1998 until 2003 which include in LQ45 that were actively traded and its financial statement were already audited became are the data for this research. After selecting the company based on those criteria, this research used 10 companies. And then, the data was processed by using Microsoft Excel and SPPS release 11.0.

4.2. Research Findings

This section explains about the data processing result for each variable which is used in this research.

	N	Minimum	Maximum	Mean	Std. Deviation
Average Price	60	199.078	16956.122	4491.3026	4493.72357
Average Volume	60	219881.25	26507243	6011852.7	6521200.8533
Operating	60	-1143731	4142721.0	898174.67	943560.95034
Investing	60	-4172128	1108727.0	-398788.3	829526.39393
Financing	60	-3478244	3552385.0	-3079.267	1258198.7460
Valid N (listwise)	60				

Table 4.1 Descriptive Statistics

The descriptive statistics of this research are showed in the table above. The amount on stock price, stock trading volume, cash flows from operating activities, cash flows from investing activities, and cash flows from financing activities is totaled 60 and there is no data missing or in other word there is no mislink data. The mean for stock price amount is 4491.3026 with the standard deviation of 4493.72357. The mean for stock trading volume is 6011852.7 with standard deviation of 6521200.8533. For cash flow from operating activities, its mean is 898174.67 with standard deviation of 943560.95034. The mean for cash flows from investing activities is -398788.3 and its standard deviation is 829526.39393. The mean for cash flows from financing activities is -3079.267 with standard deviation of 1258198.7460. The standard deviations among five data are difference in each other. The standard deviation on stock price is relatively low; it is happen because the data spread is small, while the standard deviation for stock trading volume, cash flow from operating activities, cash flow from investing activities and cash flow from financing activities are relatively big, this is because its data spread is big too. The data spread can be known by seeing the minimum and maximum value from data above.

4.2.1. Cash Flow from Operating Activities to Stock Price

R Squar	re 🤇	0.052	1111 10-	121111.6.1		
Adjuste	d R square	4413.19176				
Std. Err	or of the	3.173				
Estimat	e					
F		0.080				
Sig.						
Model		Unstandardized		Standardized	t	Sig.
	C		icients	Coefficients		
		В	Std. Error	Beta		
1a	(Constant)	3517.107	789,758		4.453	.000
	Operating	1.085E-03	.001	.228	1.781	.080

Table 4.2 The Summary of Regression Analysis for Model 1a

Model 1a explained the effect of cash flow from operating to stock price.

R square is 5.2%, which means that the effects of cash flow from operating activities to stock price in the amount of 5.2% and the change of stock price as 94.8% is affected by variables out of the cash flow of operating variable.

F test in 1a model, F value is 3.173, at the level of significance on α equal to 5%, and this model significant is 0.080 (bigger than 0.05) which means that all data do not show significant effects from cash flow of operating to stock price.

The equation for 1a model can be stated as follows y=3517.107 + 0.001085 x, where y is stock price and x is cash flows from operating activities. Positive sign on cash flow of operating coefficient 0.001085x have a meaning that between stock price and cash flow of operation has positive relationship for example if cash flow of operation is decreasing, it can make the stock price decreasing and if cash flow of operating activities is increasing so the stock price is increasing.

The result from t test which got t value is 1.781. Since 1a model significance is 0.080 (higher than 0.05) so hypothesis 1a is do not reject, which means that there is no effect from cash flow from operating activities to stock price. It was not consistent with the

researches made by Triono (2000) study also Benard and Stober (1989) and Livnat and Zarowin (1990).

4.2.2. Cash Flow from Operating Activities to Stock Trading Volume

R Squar	'e		.096			
Std. Err	or of the Esti	mate	6252568.430			
F			6.179			
Sig.		1.1	.772	\mathbf{M}		
Model		Unstand	dardized	Standardized	t	Sig.
		Coeff	icients	Coefficients		
		В	Std. Error	Beta		
1b	(Constant)	4085798.9	1118921.4		3.652	.001
	Operating	2.144	.863	.310	2.486	.016

Table 4.3 The Summary of Regression Analysis for Model 1b

Model 1b explained the effect of cash flow from operating to stock trading volume.

R square is 9.6% which means that the effects of cash flow from operating activities to stock trading volume is in the amount of 9.6% and the change of stock trading volume as 90.4% is affected by variables out of the cash flow of operating variable.

F test in model 1b, F value is 6.179 at the level of significance (α) equal to 5%, and this model significant α is 0.016, (lower than 0.05) which means that all data show significant effects from cash flow of operating to stock trading volume. The equation for model 1b can be stated as follows y=4085798.9+2.144x, where y is stock trading volume, and x is cash flows from operating activities. Positive sign on cash flow of operating coefficient 2.144x has a meaning that between

stock trading volume and cash flow of operating has positive relationship for example if cash flow of operating activities are higher so the stock trading volume is getting higher and if cash flow of operating is decreasing, this can make the stock trading volume decreasing.

The result from t test which got t value is 2.486. Since of 1b model significance is 0.016 (lower than 0.05) so we can state that the hypothesis 1b reject which means that there is an effect from cash flow from operating activities to stock trading volume.

Moreover, it was consistent with the research made by Lena Tan Chooi Yen (1999) which said that cash flows from operating have an effect to stock trading volume.

4.2.3. Cash Flow from Investing Activities to Stock Price

R Square			0.087			
Std. Error of the Estimate			4330.550	12		
F			5.530		1,6	
Sig.	·		.022			
Model		Unstand Coeffic		Standardized Coefficients	t	Sig.
		В	Std. Error	Beta		
2a	(Constant)	3853.935	621.307		6.203	.000
_	Investing	-0.001598	.001	295	-2.352	.022

Table 4.4 The Summary of Regression Analysis for Model 2a

Model 2a showed the effect of cash flows from investing activities to stock price.

R square is 8.7%, which means that the effects of cash flow from investing activities to stock price is in the amount of 8.7% and the change of stock price of 91.3% is affected by variables out of the cash flow of investing variable.

F test in model 2a, F value is 5.530, at the level of significance (α) equal to 5%, and this model significant α is 0.022, (lower than 0.05) which means that all data show significant effects from cash flow of investing to stock price.

The equation for model 2a can be stated follows as y=3853.935-0.001598x, where y is stock price, and x is cash flows from investing activities. Negative sign on cash flow of operating coefficient -0.001598x has a meaning that between stock price and cash flow of investing has negative relationship. For example, if cash flow of investing activities is higher so the stock price is getting lower, and if cash flow of investing is decreasing it can make the stock price increasing.

The result from t test which got t value is 2.352. Since model 2a's significance is 0.022 (lower than 0.05) so, we can state that hypothesis 2a reject, which means that there is an effect from cash flow from investing activities to stock price.

It is not consistent with Benard and Stober (1989) and Livnat and Zarowin's (1990) study that found out that there is no significant effect between cash flows from investing to stock price.

4.2.4. Cash Flow from Investing Activities to Stock Trading Volume

R Square		.033	.033			
Std. Erro	Std. Error of the Estimate		6468805.2	6468805.261		
F		1.960		1		
Sig.			.167		1	
Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		В	Std. Error	Beta		
2b	(Constant)	6578611.6	928083.9		7.088	.000
	Investing	1.421	1.015	.181	1.400	.167

Table 4.5 The Summary of Regression Analysis for Model 2b

Model 2b explained the effect cash flow from investing activities to stock trading volume.

The value of R square is 0.033 or 3.3% which showed that the stock trading volume can be explained by cash flow from investing activities only as 0.033. On the other hand, the 0.967 or 96.7% is explained by other variables.

F value was 1.960 and its significance was 0.167 which means that there was not significant cash flow of investing effects to stock trading volume because the amount is 0.167 bigger than 0.05 with level of significance (α) equal to 0.05.

The equation for 2b model can be stated as follows y=6578611.6+1.421x, where y is stock trading volume, and x is cash flows from investing activities. From that equation it is showed that there was a positive sign on cash flow of investing coefficient 1.421x. It means that between stock trading volume and cash flow of financing has positive relationship for example if cash flow of investing

activities is higher so the stock trading volume is also getting higher and if cash flow of investing is decreasing it can make the stock trading volume to decrease too.

The t value on 2b model was 1.400 and the significance value is 0.167. Since the significance value is bigger than 0.05 with (α) equal to 0.05, it can be stated that hypothesis 2b do not reject in other word, there is no effect from cash flow from investing to stock trading volume. It is in line with Lena Tan Chooi Yen's study (1999) which said on her second hypothesis that cash flow from investing has no effect to stock trading volume.

4.2.5. Cash Flow from Financing Activities to Stock Price

R Square			.002			
Std. Erro	Std. Error of the Estimate		4527.091	72	1	
F	F					
Sig.			.716		1	
Model		Unstandardiz Coefficients	zed	Standardized Coefficients	t	Sig.
	K	В	Std. Error	Beta	1	
3a	(Constant)	4490.776	584.447		7.684	.000
	Financing	-0.0001711	.000	048	365	.716

Table 4.6 The Summary of Regression Analysis for Model 3a

3a model table explained the effect cash flows from financing to stock price. The value of R square is 0.002 or 0.2% which means that the stock price can be explained by cash flow from financing activities only as 0.002; on the other hand, the 0.998 or 99.8% is explained by other variables.

F value was 0.133 and its significance was 0.716. It means that there was not significant effects between cash flow of financing activities to stock price because the value of significance is 0.716 (bigger than 0.05) with significance level (α) equal to 0.05 or 5%.

The equation for 3a model can be stated as follows y=4490.776-0.0001711x, where y is stock price, and x is cash flows from financing activities. From that equation it is showed that there is negative sign on cash flow of financing coefficient -0.0001711x which means that between cash flow of financing and stock price has negative relationship for example if cash flow of financing activities is higher so the stock price is getting lower and if cash flow of financing is decreasing it can make the stock price increasing.

The t value is -0.365, where the level of significance is in the amount of 0.716 (bigger than 0.05) with α equal to 0.05. It can be concluded that hypothesis 3a is do not reject, in other word, there is no effect from cash flow from financing to stock price. It was not in line with the results of researches proposed by Triono (2000) study and also Benard and Stober (1989) and Livnat and Zarowin (1990).

4.2.6. Cash Flow from Financing Activities to Stock Trading Volume

R Square Std. Error of the Estimate		.032 6470718.995 1.924				
				-		
F						
Sig.			.171			
Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		В	Std. Error	Beta		
3b	(Constant)	6014712.6	835368.77		7.200	.000
	Financing	.929	.670	.179	1.387	.171

Table 4.7 The Summary of Regression Analysis for Model 3b

Model 3b table explained the effect cash flow from financing activities to stock trading volume.

The value of R square is 0.032 or 3.2% which showed that the stock trading volume can be explained by cash flow from financing activities which is only as 0.032, on the other hand, the 0.968 or 96.8% is explained by other variables.

F value was 1.924 and its significance was 0.171 which means that there was not significant cash flow of financing effect to stock trading volume because of 0.171 which is bigger than 0.05 with α which is equal to 0.05.

The equation for 3b model can be stated as follows y=6014712.6+0.929x, where y is stock trading volume, and x is cash flows from financing activities. Like 2b model, the equation on 3b showed positive sign on cash flow of financing coefficient, 0.929x. It means that there was a positive relationship between cash flow of financing and stock trading volume for example if cash flow of

financing activities is higher so the stock trading volume is also getting higher and if cash flow of financing is decreasing it can make the stock trading volume is decreasing too.

The t value of 1.387 and the significance value is 0.171, which means that the significance value is bigger than 0.05, with significance level α equal to 0.05. It can be stated that hypothesis 3b do not reject, in other word, there is no effect from cash flows from financing to stock volume. It is in line with the hypothesis made by Lena Tan Chooi Yen (1999) which said that cash flows from financing have no effect to stock volume.

4.2.7. Cash Flows from Operating, Investing and Financing Activities to

Stock Price

R Square	- 14		.138	-		
Adjusted R	R Square		.092			
Std. Error	of the Estimat	te	4281.4626	59		
F			2.998			
Sig.	14		.038	21111 1 15	<u>r</u>	
Model		Unstanda	dized	Standardized	t	Sig.
		Coeffici	ents	Coefficients		
		В	Std.	Beta		
			Error			
4a	(Constant)	3029.618	794.685		3.812	.000
1	Operating	0.0008928	.001	.187	1.497	.140
	Investing	-0.001651	.001	305	-2.351	.022
	Financing	-0.0004304	.000	121	935	.354

Table 4.8 the summary of regression analysis for model 4a

Model 4a explained about the effects of cash flows from operating,

investing, and financing activities to stock price.

The amount of R which is used in this model is not R square but adjusted R square because the independent variable used is not only one anymore but three or there is an additional independent variable from one to three. The reason behind addition of those variables is because the amount of R which is used is adjusted R square in order to get a clearer explanation this model. The value of adjusted R square in 4a model is 0.092 which means that stock price can be explained by cash flow of operating, cash flow of investing, and cash flow of financing as 0.092, while 0.908 is explained by other variables.

Its F value of 2.998 and its significance is 0.038 which means that it is significant, in other word, there is an effects among cash flow of operating, cash flow of investing, and cash flow of financing to stock price because its significance of 0.038 is lower than 0.05 with the level of significance α equal to 0.05.

The equation for 4a model is y=3029.618+0.0008928a-0.001651b-0.0004304c, where y is stock price, a is cash flow of operating, b is cash flow of investing, and c is cash flow of financing. From this equation it means that cash flow from investing and financing activities as independent variables have negative relationship to stock price for example if cash flow of investing activities and cash flow of financing activities are higher, so the stock price is getting lower and if all components of cash flow are decreasing, it can make the stock price increasing. And positive sign on cash flow of operating have a meaning that between stock price and cash flow of operation has positive relationship for example if cash flow of operation is decreasing, it can make the stock price decreasing and if cash flow of operating activities is increasing so the stock price is increasing.

From t value and significance value on 4a model table it means that the entire variables are not significant, so it can be stated that hypothesis 4a do not reject which means that as a whole cash flow from operating activities, cash flow from investing, and cash flow from financing have no effect to stock price. It is in accordance with a research done by Triono (2000) that stated total cash flow do not have effect to stock price.

4.2.8. Cash Flows from Operating, Investing and Financing Activities to

R Square			.212			
Adjusted R Square			.169			
Std. Error of the Estimate			5943516.625			
F			5.009			
Sig.			.004			
Model		Unstandardized		Standardized	t	Sig.
		Coefficients		Coefficients		
		В	Std. Error	Beta		
4b	(Constant)	47630665.0	1103180.4		4.288	.000
	Operating	2.454	.828	.355	2.964	.004
	Investing	2.304	.975	.293	2.369	.022
	Financing	1.400	.639	.270	2.191	.033

Table 4.9 The Summary of Regression Analysis for Model 4b

Model 4b explained about the effects of cash flows from operating, investing, and financing activities to stock trading volume. The amount of R which is used in this model is not R square but adjusted R square and the reason was the same with model 4a. The value of adjusted R square in 4b model is 0.169, which means that stock trading volume can be explained by cash flow of operating, cash flow of investing, and cash flow of financing as 0.169 while 0.831 is

explained by other variables.

Its F value is 5.009 and its significance is 0.004, which means that it is significant, in other word, there are effects among cash flow of operating, cash flow of investing, and cash flow of financing to stock trading volume because its significance which is at 0.004 is lower than 0.05 with the significance level α equal to 0.05.

The equation for 4b model is y=4730665.0+2.454a +2.304b + 1.400c, where y is stock trading volume, a is cash flow of operating, b is cash flow of investing, and c is cash flow of financing. From this equation it means that cash flow from operating activities, cash flow of investing activities, and cash flow of financing activities have positive relationship which that the means higher the amount of operating, investing and financing cash flows, the higher the stock trading volume will be. And, if operating, investing and financing of cash flow are decreasing, it can make the stock trading volume also decreasing.

From t value and significance value on 4b model table it means that those entire variables are significant, so it can be stated that 4b hypothesis reject, which means that as a whole the cash flow from operating activities, cash flow from investing, and cash flow from financing has an effect to stock trading volume.

Based on all of the analyzes result, this research proved that almost the hypotheses in this research are not significant, and it can be caused by the small amount of R square or adjusted R square value. It means that the dominant factors out of cash flows information have influenced the stock price and stock trading volume on most of the companies listed in Jakarta stock exchange included in LQ45 for the year 1998 until 2003. The examples of those factors are the current political condition, government policies, country risk, etc. The independent variable that most influential to stock price is cash flow from investment activities with its significant 2.2%. Cash flow from operating activities (its significant 1.6%) and total of cash flows (its significant lower than 5%) are independent variables which the most influence the stock trading volume.

4.3. Research Implications

This section will discuss about the implication of this research on the theory used as a basis of this research.

As a whole, the analysis result can state that the local or foreign investors in Indonesia rarely use cash flows information in their investing decision taking, which are reflected on stock prices and stock trading volume in monetary crisis condition (the year of this research observation is 1998 until 2003). The factors which really influence the stock trading volume are the character and the purpose of the investors, whether they those investors want to speculate or invest. Actually, the investors who just want speculate has ignored the information in the financial statement, because they prefer to make rumors about social and politic conditions in our country, investing trend and country economic stability in their investing decision. The other way around happens to them who have the investing purpose and those who are considered as the most important information which was announced by the companies, which are listed in Jakarta stock exchange (Lena Tan Chooi yen, 1999).



CHAPTER V

CONCLUSION AND RECOMMENDATION

5.1. Research Conclusion

Based on the research objective, statistical testing and analysis which have been described in the early chapters, the researcher draws the following conclusions:

- There are no significant effects between cash flow informations which consist of cash flows from operating activities, cash flows from financing activities and total component of cash flows to stock price. Except for cash flows from investing activities.
- There are no significant effects between cash flows information which consist of cash flows from investing activities, cash flows from financing activities to stock trading volume. Except for cash flows from operating activities and total component of cash flows.

5.2. Research Recommendations

Based on the above conclusions, the researcher would like to propose the following recommendations:

 This research took small data so it is better for the next research to use data from all sectors in Jakarta stock exchange because if we take data from all sectors in JSX, the results can be utilized as the bases in drawing the conclusion.

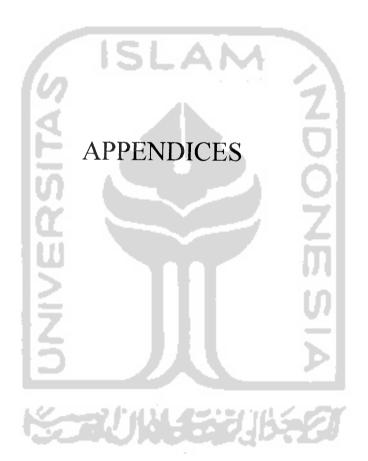
- 2. It is more appropriate for the next researcher to use different research methodology, other than linear regression.
- 3. It is better for the companies to announce the balance sheet or income statement not only in the newspaper but also at the cash flows statement to give a signal to the market in order that the users of financial statements can get its actual and relevant information easily.
- 4. Although this research analysis showed the insignificant effect among cash flows information to stock price or stock trading volume, however, the researcher believes that cash flows information is still an interesting object to be researched as a consideration in buying or selling the stocks.



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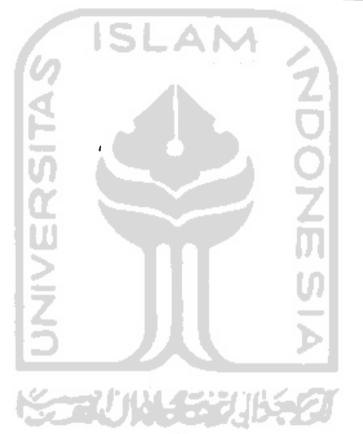
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	T	<u> </u>	1				
	year	company	price	volume	operat	invest	financ
1							3465404
2						885660.0	3300550
3						-170992	
4						512830.0	3552385
5		ASII				-140782	
6		ASII				1108727	
7		BMTR					
8		BMTR					
		BMTR				274814.0	
10		BMTR				250965.0	-197411
11		BMTR				-520982	-28590.0
<u>12</u> 13		BMTR				-1197542	
13		GGRM	9488.012		1320853	-180027	-635186
	1.000.000	GGRM	16956.12			-88579.0	-792645
15 16		GGRM	12608.22		-1143731	-237847	486743.0
10		GGRM	10993.06	The second se	551144.0	-820790	298093.0
18	2002.000	GGRM	8587.247	1521806	2215856	-1364099	-611217
18	2003.000 1998.000	GGRM	12189.27	1453458	2112529	-2151435	-10270.0
20		HMSP	4459.119	4803440	632373.0	-201680	-402173
20	1999.000	HMSP	15666.02	1322778	647306.0	-202503	- 3 91319
	2000.000	HMSP	12995.02	1158906	619441.0	-296791	203994.0
22 23	2001.000	HMSP	8597.385	4654230	496104.0	260554.0	-186383
23	2002.000 2003.000	HMSP	3534.615	6600656	1826574	-240669	-1361269
24	1998.000	HMSP	4430.077	6078473	2024678	-517 97 8	-735291
25	1999.000	INDF	3165.164	9533778	1411742	-221837	-523024
20	2000.000	INDF	7819.490	4002463	2085851	-153934	-1714778
28	2000.000	INDF	2403.163	14125569	1634873	-568195	-1414513
20	2001.000	INDF	773.469	24711506	1194561	-574972	-1213241
30	2002.000	INDF	778.644	23605536	-251784	-817731	1603575
31	1998.000	INDF	780.556	19296102	1557250	-5591 6 6	-836832
32	1999.000	KLBF	428.484	1249573	693971.0	-5793.00	-72131.0
33	2000.000	KLBF KLBF	1637.857	5156195	188730.0	-343210	-271088
34	2001.000	KLBF	489.143	3899880	98172.00	253541.0	-607032
35	2002.000	the second se	278.184	9489580	168947.0	-58976.0	-89380.0
36	2003.000	KLBF KLBF	321.700	7606668	399128.0	-99349.0	-105027
37	1998.000	MPPA	604.694 199.078	9662929	507168.0	-397249	-9755.00
38	1999.000	MPPA		5878218	205066.0	-168869	-503161
39	2000.000	MPPA		17822765	306919.0	-177428	-139486
40	2001.000	MPPA		11449322 12362478	563745.0	-397726	-43876.0
41	2002.000	MPPA	526.498	5684836	347862.0	-359254	-428557
42	2003.000	MPPA			492711.0	-516315	10 million (10 mil
43	1998.000	TINS	553.851 6058.914	3352163	389063.0	-568791	-30839.0
44	1999.000	TINS		616971.1	547812.0	-194714	-122351
45	2000.000	TINS	5191.225	825803.3	460800.0	-286278	-213381
46	2001.000	TINS	1954.347	1128257	123329.0	-254000	138610.0
47	2002.000	TINS	1041.444	3012616	195275.0	-173321	-126139
48	2003.000	TINS	490.891 1559.866	741485.3 3537308	-587.000	-68213.0	53995.00
		1110	1009.000	3337308	207811.0	-66235.0	-103328

and the second se							
	year	company	price	volume	operat	invest	financ
49	1998.000	RALS	1633.709	1214258	181381.0		-85597.0
50	1999.000	RALS	4807.551	505387.8	426548.0		-77120.0
51	2000.000	RALS	4413.571	751506.1	564920.0		-150241
52	2001.000	RALS	2817.959	1901002	403393.0		-130241
53	2002.000	RALS	2932.085	2026482	413341.0	-153625	-331103
54	2003.000	RALS	3794.923	1061605	528167.0	-753741	-173956
55	1998.000	ISAT	11982.55	725549.4	1631876	-400709	-331919
56	1999.000	ISAT	12916.12	1112004	1241520	-425262	-444309
57	2000.000	ISAT	9929,388	1600510	1439126	-251177	-681635
58	2001.000	ISAT	9067.347	2043094	1553685	-923988	
59	2002.000	ISAT	9890.000	3258775	344484.0	-4172128	402332.0
60	2003.000	ISAT	9267,143	2534849	3094338	-3893618	2091758
				200 10 10	0004000	-3033010	2477028



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Descriptive Statistics

ISLA	Valid N (listwise)	Average Financing	Average Investing	Average Operating	Average Volume	Average Price	
ě A	60	60	60	60	60	60	z
RS S		-3478244	-4172128	-1143731	219881.25	199.078	Minimum
NIVE NIVE		3552385.0	1108727.0	4142721.0	26507243	16956.122	Maximum
5 人		-3079.267	-398788.3	898174.67	6011852.7	4491.3026	Mean
		1258198.7460	829526.39393	943560.95034	6521200.8533	4493.72357	Std. Deviation

Regression - Cash Flow from Operating Activities (CFOp) to Stock Price

0

Descriptive Statistics

a. All n		Model	50	ł	N N	5	Sig. (1-tailed)		Pearson Correlation		4	Average Price Average Operating
a. All requested variables entered.	Average Operating ^a	Variables Entered	Variables Entered/Removed ^b	Average Operating	Average Price	Average Operating	Average Price	Average Operating	Average Price		Correlations	Mean 4491.3026 898174.67
es entered.	·	Variables Removed	red/Removec	erating	è	erating	Эе	erating	Se contraction of the second s	Ave	ations	in de
	Enter	Method	Z	60	60	.040		.228	1.000	Average Price		td. Deviation 4493.72357 13560.95034
	L	ł	50	60	60	1	.040	1.000	.228	Average Operating	216	2 80 00 0

b. Dependent Variable: Average Price

a. Depe			Model								b. Dep	a. Prec	1 1		
Dependent Variable: Average Price	Average Operating	(Constant)	S								b. Dependent Variable: Average Price	a. Predictors: (Constant), Average Operating	۲. 228ª	י	
· Averane Drin	1.085E-03	3517.107	Β	Unstandardized Coefficients		a. Predi b. Depe			Model		e: Average Pri	nt), Average (R Square .052)	
Ď	.001	789.758	Std. Error	ardized cients	6	ictors: (Consta indent Variabl	Total	Residual	A	N	Ce	Operating	Square .036	Adjusted R	
	.228		Beta	Standardized Coefficients	SITAS	a. Predictors: (Constant), Average Operatingb. Dependent Variable: Average Price	1.19E+09	61796370	Sum of Squares	5			the Estimate 4413.19176	Std. Error of	
	1.781	4.453	+		Coefficients ^a	erating	59 59	л о _1	df	ANOVA ^b)	.005	Change	R Square	
	.080	000	Sig				19470201.012	61796369.999	Mean Square				F Change		
	.228		Zero-order	C _o	Z		7.0.1	7	uare F				ge df1	Change S	
	.228		Partial	Correlations	15	Z.	Ĵ	3.173	4		Bź	-	` 	Statistics	
	.228	- -	Part					.080 ^a	Sia Nia			28	+	-	
	1.000		Tolerance / VIE	Collinearity								.080	Sig. F Change		
	1.000			Otatistics								.497	Durbin-W atson		

Model Summary^b

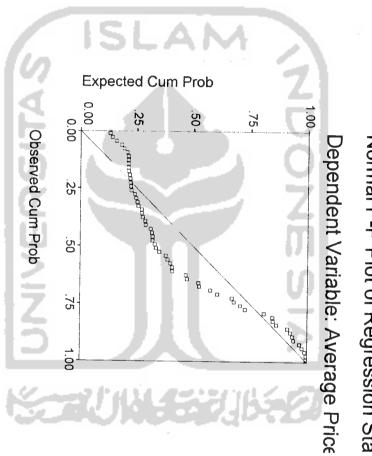
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ependent Variable: Average Price

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Std. Residual	Std. Predicted Value	Residual	Predicted Value		1	4	a. Dependent Variable: Average Price	2	1	Model Dimension			
-1.130	-2.164	-4986.479	2276.5706	Minimum			Variable: Ave		7				
2.692	3.439	11881.078	8010,4668	Maximum	Residuals Statistics ^a	5	rage Price	.307	1.693	Eigenvalue			
.000	.000	8 -1.23E-12	3 4491.3026	Mean	atistics ^a			2.346	1.000	Index	Condition		
0		2 4375.63200	6 1023.42372	Std. Deviation				.85	.15	(Constant)		Variance	
.991	1.000	3200	2372	iation		IJ	6	.85	.15	Operating	Average	Variance Proportions	
60	60	60	60	Z			l		01				

4





Regression - Cash Flow from Operating Activities (CFOp) to Stock Trading Volume

Descriptive Statistics

a. All ri		Model	SA		Z		Sig. (1-tailed)		Pearson Correlation		1	Average Volume Average Operating	
All requested variables entered.	Average Operating ^a	Variables Entered	Variables Entered/Removed ^b	Average Operating	Average Volume	Average Operating	Average Volume	Average Operating	on Average Volume		Correlations	ne 6011852.7 ating 898174.67	Ц.
s entered. Average Vo		Variables Removed	ed/Remove	perating	lume	perating	lume	perating	olume		tions		Н.
	Enter	Method	N ²	60	60	.008		.310	1.000	Average Volume		6521200.8533 943560.95034	Std. Deviation
	L	L.	5	60	60	4	.008	1.000	.310	Average Operating	i libi	60 60	z

b. Dependent Variable: Average Volume

		Model]													
Average Operating	(Constant)												b. Depe	a. Predi		Model	
ge ting	tant)							_					ndent Va	ctors: (C	.310ª	ת	
2.144	4085798.9	ω	Unstand Coeff		b. Depende	a. Predictor	Total	Re	1 Re	Model			b. Dependent Variable: Average Volume	Predictors: (Constant), Average Operating	.096	R Square	
.863	1118921.4	Std. Error	Unstandardized Coefficients	6	nt Variable: A	s: (Constant),		_	Regression	4	N.	1	le Volume	age Operating	.081	Adjusted R Square	
.310		Beta	Standardized Coefficients		b. Dependent Variable: Average Volume	a. Predictors: (Constant), Average Operating	2.51E+15	2.27E+15	2.42E+14	Sum of Squares	A	1			6252568.430	Std. Error of the Estimate	
2.486	3.652	-		Coefficients ^a		DL	59	58 -		dŗ ∠	ANOVA ^b	2			960	R Square Change	
.016	.001	Sig.		Ę				3.9095E+13	2 41550+14	Mean Square				ľ		F Change	
.310		Zero-order	Co	S						лаге F					7	ange df1	Change Statistics
.310		Partial	Correlations	15		2	J	5/1	t			<u>i</u>	5		4	df2	stics
.310		Part							0163	<u>N</u> -				·		Sia. F Change	
1.000		Tolerance	Collinearity Statistics											ŀ		Durbin-W	
1.000		≤IF	Statistics											F	712	\$	

 Operating
 2.144

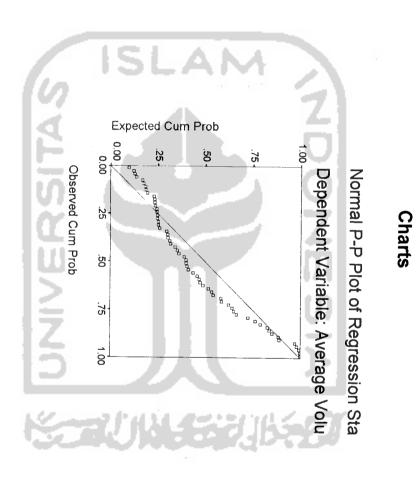
 a. Dependent Variable: Average Volume

Model Summary^b

Collinearit
÷
Diagnostics ^a

Std. Residual	Std. Predicted Value	Residual	Predicted Value		1	S	a. Depe	92.	Case Number]	7		a. Depende	2		Model Di			
-1.309	e -2.164	-8186476	1633171.8	Minimum	73		a. Dependent Variable: Average Volume		nber Std. Residual		C		Dependent Variable: Average Volume			Dimension Eig			
3.208	3.439	20059666	12969487	Maximum	Residuals Statistics ^a		Average Volum	3.208 236	-		Casewise Diagnostics ^a		rage Volume	.307	1.693	Eigenvalue	0		
.000	.000	-8.54E-10	6011852.7	Mean	istics ^a		e	23605536 354	Average Prev Volume Va		nostics ^a			2.346	1.000	0	Condition		-
.991	1.000	6199354.1138	2023380.6216	Std. Deviation				3545871.0 20	Predicted Value Re					.85	.15	Constant)		Variance Proportions	
91	8	38	16	on V		ij	ļ	20059665	Residual			<u>i</u>	5	.85	. 15	Operating	Averano	oportions	
60	60	60	60																

Std. Residual a. Dependent Variable: Average Volume



Regression - Cash Flow from Investing Activities (CFIn) to Stock Price

Descriptive Statistics

a. All req		Model		SA			z		Sig. (1-tailed)		Pearson Correlation				ł		Average Investing	Average Price		
All requested variables entered	Average a Investing		Variables Var	variadies Entered/Kemoved		Average Investing	Average Price	Average Investing	Average Price	Average Investing	Average Price				Correlations		-398788.3	4491.3026	Mean	
tered.	. Enter	Removed Method	Variables		<u>-</u>	g 60	60	.011		g295	1.000	Average Price			U.		829526.39393	4493.72357	Std. Deviation	
1	L		Ę			60	60	į.	.011	1.000	295	Investing	Average	Į.	įβ	No.	60	60	z	

b. Dependent Variable: Average Price

															r	1	
	->	Model											b. Depe	a. Predi		Model	
Average	(Constant)												b. Dependent Variable: Average Price	Predictors: (Constant), Average Investing	.295ª	ע	
-1.598E-03) 3853.935	B	Unst Co		b. Depe	a. Pred				Model			: Average Pri	nt), Average Ir	.087	R Square	
.001	621.307	Std. Error	Unstandardized Coefficients	6	ndent Variable	ictors: (Consta	Total	Residual	Regression	4		N	Se Se	ivesting	.071	Adjusted R Square	
<u>.</u>	7	r Beta	Standardized Coefficients	ITA.	b. Dependent Variable: Average Price	a. Predictors: (Constant), Average Investing	1.19E+09	1.09E+09	1.04E+08	Sum of Squares		5.			4330.55012	Std. Error of the Estimate	
295 -2.352	6.203	t	zed nts	Coefficients ^a	æ	vesting	59	58	L	df		ANOVA ^b) 7		.087	R Square Change	
.022		Sig.		a N				18753664.314	103707007.5	Mean Square				İ	5.530	F Change	
295		Zero-order	Cor	5				.314	ļ	uare F					10	e df1	Change Statistics
- 295		Partial	rrelations			l	j	Ķ	5.530	4			B			df2	tatistics
295		Part							.022ª	Sig.					58	رم ا	
1.000		Tolerance	Collinearity Statistics								-				.022	Sig. F Change	
1.000		VIF	ırity cs												.633	Durbin-W atson	

Model Summary^b

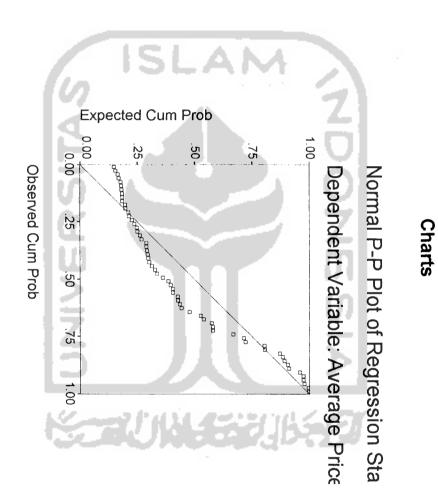
a Dependent Variable: Average Price

Collinearity Diagnostics^a

a. Dep		1	Model		
a. Dependent Variable: Average Price	2		Dimension		
Average Price	.564	1.436	Eigenvalue		
C to the time a	1.596	1.000	Index	Condition	
	.72	.28	(Constant)		Variance Proportions
<u>1</u> 16	.72	.28	Investing	Average	roportions

	2		ice	le: Average Pr	a. Dependent Variable: Average Price
60	.991	.000	2.993	-1.043	Std. Residual
60	1.000	.000	4.549	-1.817	Std. Predicted Value
60	4293.69370	-1.06E-12	12960.615	-4517.639	Residual
60	1325.80009	4491.3026	10522.086	2081.8989	Predicted Value
z	Std. Deviation	Mean	Maximum	Minimum	
		ISUCS	Nesinnais statistics		

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Regression -Cash Flow from Investing Activities (CFIn) to Stock Trading Volume

Descriptive Statistics

a. All re		Model	SV	8	NUT	5	Sig. (1-tailed)		Pearson Correlation		4	Average Volume Average Investing	
All requested variables entered	Average a Investing	Variables Entered	Variables Entered/Removed ^b	Average Investing	Average Volume	Average Investing	Average Volume	Average Investing	n Average Volume		Correlations	ie 6011852.7 ing -398788.3	Moon
es entered.		Variables Removed	red/Remove	nvesting	/olume	nvesting	/olume	nvesting	/olume		ations	.7 6521200.8533 .3 829526.39393	
	Enter	Method	Ž	60	60	.083		.181	1.000	Average Volume		0.8533 39393	
	L		š.	60	60	ſ	.083	1.000	.181	Average Investing	J.IB.	2 60 00	

b. Dependent Variable: Average Volume

		lodel														Γ.	r	
Average	(Cor													b. Depe	a. Pred		Model	
age	Constant)											_		ndent Va	ictors: (C	.181ª	ס	
	6578611.6	ω	Coeff	Unstand		b. Depende	a. Predictor	Total	Re	1 Re	Model			b. Dependent Variable: Average Volume	a. Predictors: (Constant), Average Investing	.033	R Square	
	928083.9	Std. Error	Coefficients	Unstandardized	6	nt Variable: A	s: (Constant),			Regression			M	je Volume	age Investing	.016	Adjusted R Square	
		Beta	Coefficients	Standardized		b. Dependent Variable: Average Volume	a. Predictors: (Constant), Average Investing	2.51E+15	2.43E+15	8.20E+13	Sum of Squares		Δ			6468805.261	Std. Error of the Estimate	
	7 088	4			Coefficients ^a		ũ	59	58 4	1 8	df Me		ANOVA ^b			.033	R Square Change	
	000	Sig.			I≩				4.1845E+13	8.2002E+13	Mean Square					1.0	Change	
		Zero-order	Co		5				Z	7	are F					1.960 1	ge df1	Change Statistics
		Partial	Correlations		N.		1	ij	Ķ	1.960	2		đ.	B		58	df2	tics
		Part	0							.167a	Sig					.167	Sig. F Change	
		Tolerance	Statistics	Collineari													Durbin-W	
		< F	* ç	ŧ												4]

Model Summary^b

a. Dependent Variable: Average Volume

Average Investing (Constant)

> 6578611.6 1.421

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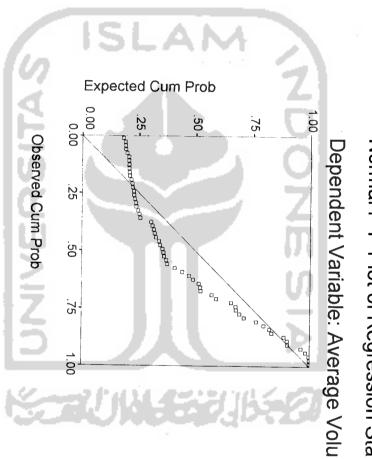
Model

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			1.000		
	001	nnn	2 068	- 921	Std. Residual
	1.000	.000	1.817	-4.549	Std. Predicted Value
	6413750.5978	-1.79E-09	19199796	-5956668	Residual
	1178924.8653	6011852.7	8154337.0	649173.50	Predicted Value
z	Std. Deviation	Mean	Maximum	Minimum	
		Isticsª	Residuals Statistics	R	
13					
D	1		age Volume	Variable: Aver	a. Dependent Variable: Average Volume
.72	.72	1.596	.564		2
.28	.28	1.000	1.436		1
Investing	(Constant) Inve	Index (C	Eigenvalue	Ē,	Model Dimension
Average	Ave	Condition	0		
ons	Variance Proportions				

a. Dependent Variable: Average Volume

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Regression - Cash Flow ffrom Financing Activities (CFFi) to Stock Price

Descriptive Statistics

a. All r		Model	2		Z		Sig. (1-tailed)		Pearson Correlation		*	Average Price Average Financing	
All requested variables entered	Average Financing	Variables Va Entered Re	Variables Entered/Removed ^b	Average Financing	Average Price	Average Financing	Average Price	Average Financing	1 Average Price		Correlations	e 4491.3026 ncing -3079.267	Mean
intered.	. Enter	Variables Removed Method	Removed ^b	ng 60	60	ng .358			1.000	Average Price	S	4493.72357 1258198.7460	Std. Deviation
		ţ		60	60		.358	1.000	048	Average Financing	j jbž	60 60	z

.

b. Dependent Variable: Average Price

	_	Model											b. Depe	a. Pred		Model	
Average Financing	(Constant)												endent Vari	ictors: (Cor	.048ª	ע	
-1.711E-04	4490.776	в	Unsta Coe		b. Depend	a. Predicto		R	1 R	Model			b. Dependent Variable: Average Price	a. Predictors: (Constant), Average Financing	.002	R Square	
.000	5 584.447	Std. Error	Unstandardized Coefficients	5	b. Dependent Variable: Average Price	rs: (Constant),	Total		Regression			4	Price	e Financing	015	Adjusted R Square	
048	,	Beta	Standardized Coefficients	er i Ce	Verage Price	a. Predictors: (Constant), Average Financing	1.19E+09	1.19E+09	2735089.6	Sum of Squares),			4527.09172	Std. Error of the Estimate	
8365	7.684	t	" <u>а</u>	Coefficients ^a		bing	59	58 2	-	df	ANOVA ^b				.002	R Square Change	
.716	.000	Sig.		I ≩				20494559.450	2735089.562	Mean Square						F Change	
048		Zero-order	Cor	5				7		lare F					.133 1 1	nge df1	Change Statistics
048		Partial	Correlations	5		1	j	ļ	. 133	2		J	6	1	58	df2	stics
048		Part						:	.716ª	Sig.						Sig. F Change	
1.000		Tolerance	Collin Stat												.716		
00 1.00		ce VIF	Collinearity Statistics												.495	Durbin-W atson	

Model Summary^b

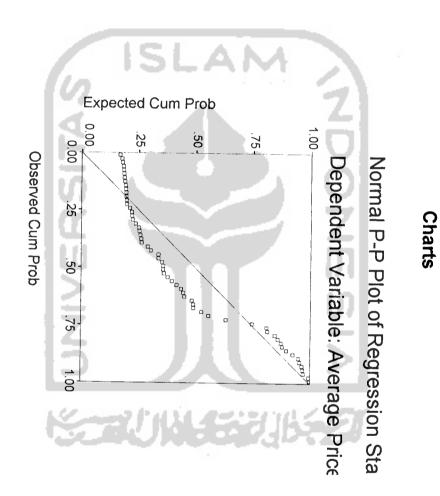
Average Financing -1.711E-04 a. Dependent Variable: Average Price

Collinearity Diagnostics^a

			T	
a Dep		ļ	Model	
a. Dependent Variable: Average Price Residuals	2		Dimension	
: Average Price Residuals Statistics ^a	.998	1.002	Eigenvalue	
Statistics ^a	1.002	1.000	Index	
	.50	.50	(Constant)	Variance Proportions
i dib	.50	.50	Average Financing	roportions

	Minimum	Maximum	Mean	Std. Deviation	z
Predicted Value	3882.8779	5085.9863	4491.3026	215.30780	60
Residual	-4377.801	12329.706	-8.03E-13	4488.56258	60
Std. Predicted Value	-2.826	2.762	.000	1.000	60
Std. Residual	967	2.724	.000	.991	60

•



Regression-Cash Flow from Financing (CFFi) to Stock Trading Volume

Descriptive Statistics

a. All req b. Depen		Model				Z		Sig. (1-tailed)		rearson Correlation	-		1	Average Financing	Average Volume		
All requested variables entered.	Average Financing	à	S	Variables Entered/Removed ^b	Average Financing	Average Volume	Average Financing	Average Volume	Average Financing	Average Volume			Correlations	ing -3079.267	e 6011852.7	Mean	
entered. verage Volu		Removed	Variables	d/Removed	incing	Ime	ancing	ume	ancing	ume		4	ons		_	Std. Deviation	
3	Enter	Method		Z	60	60	.085		.179	1.000	Volume	Average		3.7460).8533	viation	
	L	L	Ę		60	60		.085	1.000	.179	Financing	Average	i jibi	60	60	z	

b. Dependent Variable: Average Volume

		Model]												-		-
 	> -												Den	a. Pred		Model		
Financing	Constant)												endent Val	dictors' (Co	.179a	ע		
.929	6014/12.6	Ξ	Unstar Coef		b. Depenc	a. Predict			ר ק	Model			riahle: Averan	Predictors' (Constant) Average Einancing	.032	R Square		
.670	835368.77	Std. Error	Unstandardized Coefficients	6	tent Variable:	ors: (Constant)	Total	Residual	Regression	. 4	Ň		a Volumo		.015	Adjusted R Square	• - -	
.179		Beta	Standardized Coefficients	SITA	b. Dependent Variable: Average Volume	a. Predictors: (Constant), Average Financing	2.51E+15	2.43E+15	8.06E+13	Sum of Squares					6470718.995	Std. Error of the Estimate		
1.387	7.200	-+	L	Coefficients ^a		sing	59	58 -	_	е. 	ANOVA ^b				.032	R Square Change		
.171	.000	Sig.		l≧				4.1870E+13	8 05665+13	Mean Square				ľ		F Chanoe		
.179		Zero-order	Correl	Z				7		are F					+	nae df1	Change Statisti	
.179		Partial	relations	15		2	IJ	1.224	T	0		<u>i</u> le	ķ		4	2 3	stics	
.179		Part						/ -	4748	ю - Б					<u>09</u> .	Sin E Change		
1.000		Tolerance	Collinearity Statistics												╉			
1.000		< F	arity Cs											.000	alson	Durbin-W		

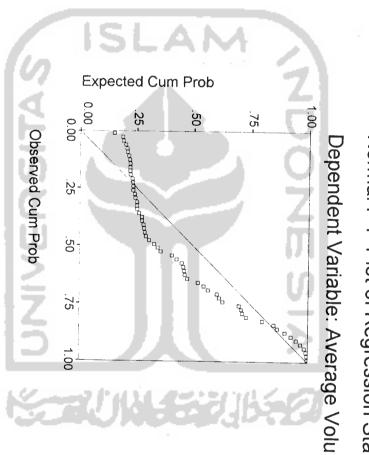
a. Dependent Variable: Average Volume

Model Summary^b

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Std. Residual -1.041	Std Dradicted Value	Predicted Value		6	a. Depende	87	Case Number		4	a. Dependent v	2		Model Dimension	
-2.762 -1.041	-6739168	2784285.5	Minimum	R	nt Variable: A		Std. Re	Ca		Dependent Variable: Average Volume		Ŧ	-	
2.826 3.064	19823594	9313998.0	Maximum	Residuals Statistics ^a	Dependent Variable: Average Volume	3.064 247	~	Casewise Diagnostics ^a		rage Volume	.998	1.002		
.000	-1.88E-09	6011852.7	Mean	tistics ^a	ne	24711506 48	Average Pi Volume Pi	nostics ^a			1.002	1.000	Condition	
	6415648		Std. Deviation			4887912.2	Predicted Value				.50	(Constant) .50	(Constant)	Variance F
1.000 .991	0442	9799			IJ	19823594	Residual		1	в	.50	Financing	Average	Variance Proportions
60 60	60	60	z							I		<u>_</u>		

Charts





Regression - CFOp, CFIn, and CFFi to Stock Price

Descriptive Statistics

			2	2			UN: (I-talled)	Oia /1 toilout				Dearson Corrolati							
Average Financing	Average Investing	Average Operating	Average Price	Average Financing	Average investing	Average Operating	Average Price	Average Financing	Average investing	Average Operating		L			Average Financing	Average Investing	Average Operating	Average Price	
										ũ		Average Price		Correlations	-3079.267	-398788.3	898174.67	4491.3026	Mean
60	60	8	60	.358	.01 1	.040		048	- 295	.228	1.000	Price		ร	1258	8295;	9435	44	Std.
60	60	60	60	.382	.188		.040	039	117	1.000	.228	Operating	Average		1258198.7460	829526.39393	943560.95034	4493.72357	Std. Deviation
60	60	60	60	.021		.188	.011	262	1.000	117	295	Investing	Average		හ	60	60	හ	z
60	60	60	60		.021	.382	.358	1.000	- 262	039	048	Financing	Average						

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b. Depe	a. Pred		Model									
endent Var	ictors: (Co	.312-	R									
b. Dependent Variable: Average Price	nstant), Avera	.138	R Square									
e Price	tge Financing	.092	Adjusted R Square	51	A	, b	a		2		M	1
	a. Predictors: (Constant), Average Financing, Average Operating, Average Investing	4281.46269	Std. Error of the Estimate		Mod	b. Dependent Variable: Average Price	a. All requested variables entered	Average a Investing	Average Operating,	Average Financing,	Model Entered	
	ting, Average In	.138	R Square Change		Model Summary ^b	iable: Average F	ariables entered				es Variables d Removed	
	vesting	2.998	F Change	Chang		rice			. Enter		s d Method	
	-	ω	df1	Change Statistics					-		۵.	
		56	df2	stics	5	5	j.	بكظ		Ţ		
		- 1	Sig. F Change									
		.617	Durbin- Watson									

Variables Entered/Removed^b

b. Dependent Variable: Average Price STISSBURGENERS

ANOVA^b

			Model	
Total	Residual	Regression		
1.19E+09	1.03E+09	1.65E+08	Squares	Sum of
59	56	З	df	
にして	18330922.741	54962621.399	Mean Square	
	2	2.998	ור	
		.038ª	Sia	

a. Predictors: (Constant), Average Financing, Average Operating, Average Investing
b. Dependent Variable: Average Price
Coefficients^a

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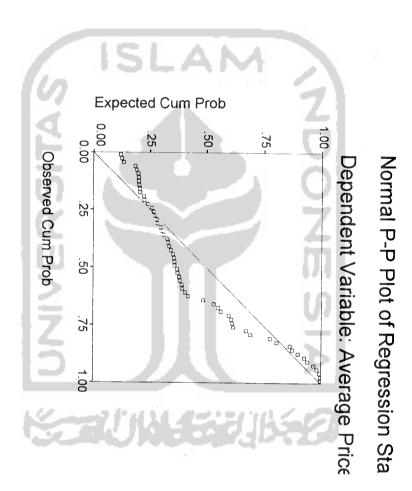
a. De	Γ			_		Model	
a. Dependent Variable: Average Price	Average Financing 4.304E-04	Average Investing	Average Operating 8.928E-04	(Constant)	(Constant)		
ge Price	-4.304E-04	-1.651E-03	8.928E-04	3029.618	σ	Coett	Unstand
	.000	.001	.001	794.685	Sta. Error	Coefficients	Unstandardized
	- 121	- 305	.187		Beta	Coefficients	Standardized
	935	-2.351	1.497	3.812			
	.354	.022	.140	.000	Sig.		
	- 048 -		U		Zero-order Partial	Correlations	
			.196 .186	_	rtial Part	ons	-
			.981		Part Tolerance	Collinearity Statistics	
		1 003	1 019		<1F	Statistics	

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a. Dep					Model			
a. Dependent Variable: Average Price	4	ω	N	د (Dimension			
'ariable:					sion			
Avera	1	ľ			Eigenvalue			
ge Price	.304	.568	1.101	2.027	value			
	. 8				Index	Condition		
Residuals Statistics ^a	2.584	1.890	1.357	1.000	ex	ition		
Statisti				i	(Cons			
C Sa	85	.04	.02	.09	(Constant)			
					Operating	Averane	Var	
	.77	-1 -1	03	.09	ating	AUG	Variance Proportions	
10.0	'n	a	Z		Investing	Δνρ	roportic	
	.02	.81	.08	.09	sting	900	suc	
					Financing	Aver		
	00	.34	.66	8	cing			

6	a. Dependent Variable: Average Price	Std. Residual	Std. Predicted Value	Residual	Predicted Value	
TAL	e: Average Pr	-1.178	-1.482	-5045.215	2013.0134	Minimum
Charts	ice	2.839	3.986	-5045.215 12156.717	2013.0134 11155.242 4491.3026	Maximum
ts N		.000	.000	-1.42E-12	4491.3026	Mean
		.974	1.000	4171.19191	1671.73849	Std. Deviation
13	-		ł	Ú	1	z
		60	60	60	60 0	



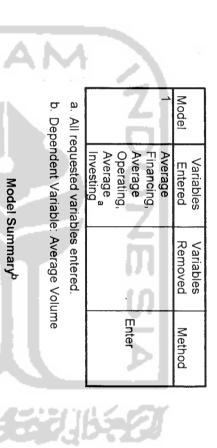
Regression - CFOp, CFIn, and CFFi to Stock Trading Volume

Descriptive Statistics

Ave	Ave	Ave	Ave		Ave	Ave	Sig. (1-tailed) Ave	ŀ	Ave	Ave	Pearson Correlation Ave	ŧ.	/		Average Financing	Average Investing	Average	Average Volume	
Average Financing	Average Investing	Average Operating	Average Volume	Average Financing	Average Investing	Average Operating	Average Volume	Average Financing	Average Investing	Average Operating	Average Volume			co			Average Operating 898-	-	
60	60	60	60	.085	.083	.008		.179	. 181	.310	1.000	Volume	Average	Correlations	-3079.267 1258	-398788.3 829	898174.67 943	6011852.7 652	
60	60	60	60	.382	.188		.008	039	117	1.000	.310	Operating	Average		1258198.7460	829526.39393	943560.95034	6521200.8533	
60	60	60	60	.021		.188	.083	262	1.000	117	.181	Investing	Average		60	60	60	60	
60	60	60	60		.021	.382	.085	1.000	262	039	.179	Financing	Average						



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Model Summary^b

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b. Dependent Variable: Average Volume
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	Coefficients	Coefficients	Coefficients			Cor	Correlations		Statistics	S
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Average Operating	2.454	.828	.355	2.964	.004	.310	.368	.352	.981	1.019
Average Investing	2.304	.975	.293	2.363	.022	.181	.301	.280	.915	.915 1.093
Average Financing	1.400	.639	270	2.191	.033	179	.281	.260	.926	.926 1.080

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	.974	.000	3.377	-1.114	Std. Residual
	1.000	.000	4.269	-2.374	Std. Predicted Value
	5790438.9825	-1.18E-09	20072392	-6622125	Residual
	2999479 4479	6011852.7	18816708	-1107579	Predicted Value
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9					
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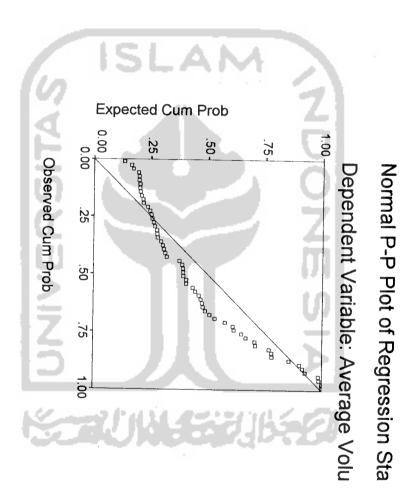
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.66	.08	.03	.02	1.357	1.101	2	
.00	60	.09	60	1.000	2.027		_ _
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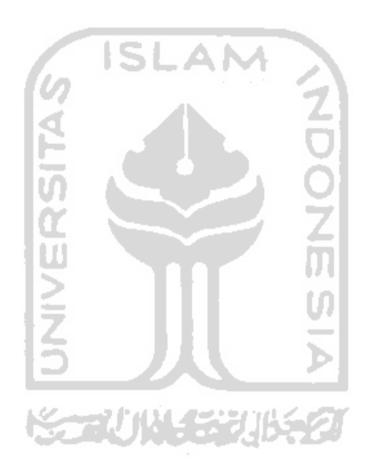
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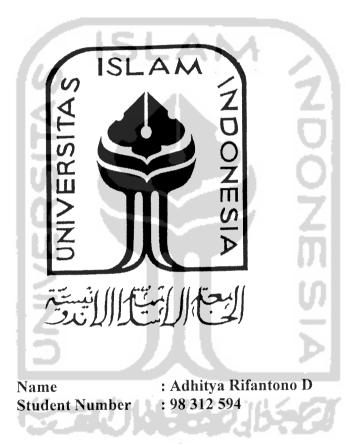




THE INFLUENCE OF MARKET VALUE ADDED (MVA) TO STOCK RETURNS STUDY ON MANUFACTURING COMPANIES LISTED ON JAKARTA STOCK EXCHANGE

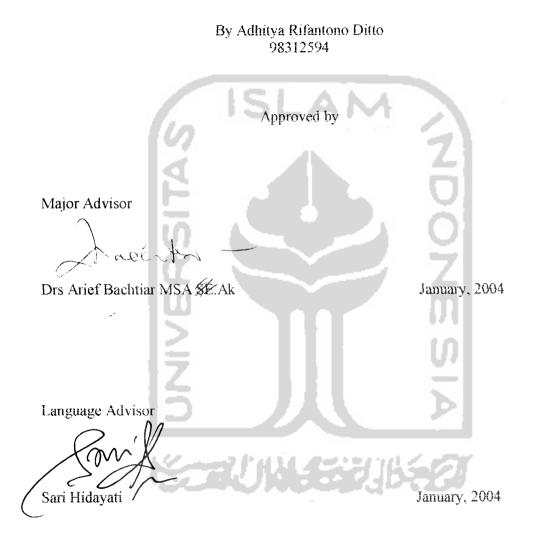
A Bachelor Degree Thesis

Presented as Partial Fulfillment of The Requirements To obtain <u>the bachelor degree</u> in Accounting Department



DEPARTMENT OF ACCOUNTING FACULTY OF ECONOMICS ISLAMIC UNIVERSITY OF INDONESIA 2004

THE INFLUENCE OF MARKET VALUE ADDED (MVA) TO STOCK RETURNS STUDY ON MANUFACTURING COMPANIES LISTED ON JAKARTA STOCK EXCHANGE



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A BACHELOR DEGREE THESIS

By

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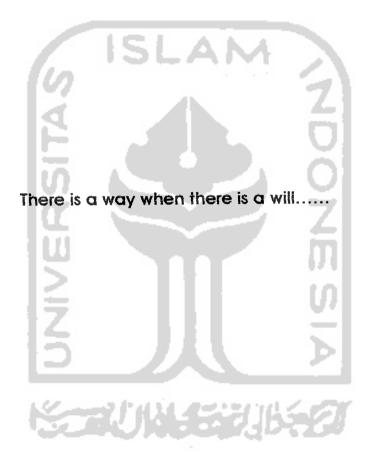
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Adhitya Rifantono D.

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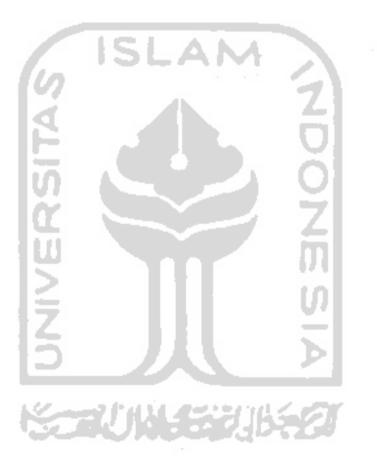
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ABSTRACT

Rifantono Ditto, Adhitya (2004), The Influence of Market Value Added to Stock Returns, Study on Manufacturing Companies, Listed on Jakarta Stock Exchange. International Program, Accounting Department, Faculty of Economics, Islamic University of Indonesia.

This research has purposes to reexamine the previous research which studied the influence of Market Value Added (MVA) to stock returns, tested by Yook and Mc Cabe and also to test whether or not the result can be applied in Indonesia. Population of this research is all manufacturing companies listed on Jakarta Stock Exchange. Samples of this research are 58 manufacturing companies which has complete data on Jakarta Stock Exchange. Data are gained from Jakarta Stock Exchange Corner which is existed in the Faculty of Economics, Islamic University of Indonesia. Data collected is tested by regression analysis.

From the regression analysis result with confidence level 95%, (1) MVA has positive and significant influence to stock returns. This can be showed by the value of t=12,223 and p=0,000. MVA regression coefficient is b_1 =2,626x10⁴⁰⁹, it means every MVA increases Rp 1 million will cause stock returns increase 2,626x10⁴⁰⁹; (2) PER has positive and significant influence to stock returns. This can be showed by the value of t=2,612 and p=0,001. PER regression coefficient is b_2 =4,420x10⁻⁵; (3) PBV has positive influence but insignificant to stock returns. This can be showed by the value of t=0,982 and p=0,328; (4) MVA, PER, and PBV collectively have positive and significant influence to stock returns. The influence is showed by determination coefficient, which is R²=0,645 or 64,5%. Determination coefficient can be interpreted that 64,5% of the causing factors of changes in stock returns are because the changes of MVA, PER, and PBV while the rest 35,5% is caused by the other factors which is not covered by analyzed regression model.

CHAPTER 1

INTRODUCTION

1.1 STUDY BACKGROUND

The stock return is one of important variables for stock investors considered in stock market. This can be understood by considering the purpose of the investors why they invest their money in stock market. Their purpose is to get profit which hopefully can increase their wealth. The stock return is defined as the difference between selling price and buying price of stocks added by dividend, which is distributed by companies to the stockholders. The higher the selling price of stocks the higher the return of stocks.

The value of the stock price in stock market, basically, is influenced by investors perception to the fundamental factors of the companies and external factors related to the macro characteristics like political condition and economic condition. Those factors will directly influence buying-selling mechanism of stocks in the stock market. Eminent companies which have good performance and management, perhaps, will be having high stocks price, because companies with good performance and management will be perceived by investors as companies which are able to give profit or increase the wealth of the stockholders, on the contrary, if companies are not well-managed, for instance companies which are having monetary difficulty because of their disability in fulfilling their financial obligations, they will be logically considered as unprofitable companies and therefore might not be able to survive.

Basically, the main problem faced by the investors is the needs of information, which can hopefully help them to make decision of investment in stock market. Financial report, conceptually, indeed can provide the information. As Munawir (2002,2) states that the financial report users will use the financial report to help them to make decisions, for example the investors which are interested in company stocks will take the financial report as an input to make a decision in buying that stocks. However, the information stated in financial report can not exactly describe the behavior of stock price in the stock market, so it still needs the data processing of advanced financial report which hopefully can produce the information that can describe the price stock behavior.

One method that is mostly done by practitioner even academician in their effort to get characteristics or stock price behavior in stock exchange is by doing mathematical model formation. This kind of mathematical model is basically using input in the form of data of a company condition like financial or managerial characteristics, while the output of this model is the stock returns. Some of research aimed to get price behavior model or stock returns have been conducted by Barbee, Sandip and Gary (1996). They analyzed the influence of *sales-price ratio* and *debtequity ratio* toward the stock returns. Loughran (1997) examined the influence of *book-to-market ratio*, *firm size* toward the stock returns. Utama and Dewiyanti (1999) sought for the influence of risk, companies measurement, market-to-book value ratio, price-earning ratio to the stock returns of manufacturing companies listed on Jakarta Stock Exchange. Robert Hull (1999) examined the influence of From the research which have already mentioned above, the writer of this graduating paper finds that Ken C. Yook and McCabe research is very interesting to be reexamined. This is because the research uses the new variable of company performance, which is Market Value Added (MVA), where the function of MVA as a predictor of stock returns is rarely used.

Conceptually, the MVA is the difference between *total market value* and *total capital supplied* in a certain time, or MVA equals to stock exchange value used in company (Mulyadi,2001;210). MVA is one indicator of company ability or management in increasing the weelth of stockholders. The positive MVA can be described as company, which is able to increase the wealth of stockholders, while negative MVA can be described as company, which is not able to increase the wealth of the stockholders. The higher the MVA the better the company, especially, if it is seen from the ability to increase the wealth of the stockholders. Therefore, companies which have high MVA can produce the high stock returns. Besides using MVA, Ken C. Yook and McCabe were also making use of price-earning ratio (PER) variable as a stock returns predictor. According to Munawir (2000;261) PER is seen by investors as company with high PER generally will have big opportunity to rise or develop, it means that company will be perceived as good company. The last variable which is used by Ken C. Yook and McCabe to predict the price stock is

price-book value ratio (PBV); that is comparison between stock price and equity book value. Companies with high PBV which means the stock market price is higher than book value will be perceived by investors as companies that have good potential in increasing the wealth of the stockholders.

1.2 Problem Identification

The general objective of investors in capital market, especially related to buying and selling stocks, is to get return or profit. Generally, profit is gained from the increasing of stocks price and the accepting of dividend from the entity. Because dividend are not always distributing to the stock holders, thus the main sources of return and profit is the increasing of stocks price.

The value of the stock price itself, basically, is defined by the number of variables, either macro or micro. Macro variables are variables that relates to the political situation and economical situation, such as, interest rate, inflation, and foreign exchange rate; while micro variables are related to the performance of the entity itself, for example, Market value added, Price Earning Ratio, and Price Book Value. This research will emphasize on micro variables.

1.3 Problem Formulation

According to the study background, the problem formulation which is going to be described in this research;

"Are Market Value Added (MVA), Price Earning Ratio (PER), and Price to Book Value (PBV) having significant influence to the stock returns?"

1.4 Definition of Terms

1. Market Value Added

MVA is one measurement of companies' performance based on value. MVA concept can be defined as the difference between the value of companies market (including equity and liability) to the whole capital which is invested in companies. It can be written as follows (Young. 2001:26):

2. Price Earning Ratio (PER)

Price Earning Ratio is comparison between the price markets of one stock sheet to the profit per companies stocks. Price Earning Ratio is important variable to make decision to buy, sell or hold the stocks (Horngren, 1996; 917).

3. Price to Book Value (PBV)

Price to Book Value (PBV) is ratio between the prices per one stock to the book value of stockholders equity per sheet (Jones, 1996:461).

4. Stock Returns

Stock returns is the profit level per stock sheet, which is comparison between the differences of selling price to the buying price divided by buying price.

5. Manufacturing Companies

Manufacturing companies are kind of companies where their activity is to produce goods.

1.5. Limitation of Research Area

Some limitation, which is used in this research are as follows:

- 1. Some manufacturing companies listed on Jakarta Stock Exchange
- 2. The period of time is 2000 and 2001

1.6 The objective of the Research

The objective of the research is to conduct the empirical study on the influence of Market Value Added (MVA), Price Earning Ratio (PER) and price to book value ratio (PBV) to the stock returns of manufacturing companies in Jakarta Stock Exchange.

This research is a replication from the previous research which is conducted by Ken C. Yook and George Mc Cabe. The objective is to examine whether the research can be applied in Indonesia or not.

1.7 Research Contribution

This research will hopefully give contribution to as follows:

- a. The writer. This research hopefully can be used to apply the conceptual knowledge to the real world, especially in stock investment.
- b. The science. This research is hopefully able to enrich the result of empirical finding that relates to the influence of market value added (MVA), price earning ratio (PER), and price to book value (PBV) to the stock returns of manufacturing company in Jakarta Stock Exchange.

1.8 Hypothesis Formulation

- a. Market Value Added (MVA) has significant positive influence to the stock returns of manufacturing company.
- b. Price earning ratio (PER) has significant positive influence to the stock returns of manufacturing company.
- c. Price to book value ratio (PBV) has significant positive influence to the stock returns of manufacturing company.
- d. Market value added (MVA), price earning ratio (PER), and price to book value ratio (PBV) have significant influence to the stock returns of manufacturing company.

