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The Examining the Capital Structure Determinants: Empirical Analysis of Regional Development Banks In Indonesia

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Abstract: One of the unique banking in Indonesia is that there are regional development banks (RDB), which is a government-owned bank districts. Regional development banks categorized as focused bank, ie the bank with regional focus. The objective of this research is determinan of capital structure in region development bank (Bank Pembangunan Daerah). The external variables of the economy of a country in Indonesia are regional autonomy, bank policy of government and economic crisis. The internal factor or characteristics of an individual bank are loans, size and profitability. The population consists of 26 community development banks. The study 14 regional development ban 2 because of difficulty in getting the data. The period under study is from 1995 to 2010. In this study using parel data and analysis using pooled ordinary least square (OLS) and random effect. The results showed the regional autonomy negative influence on leverage because obtain additional funds from the local government. Dummy equity (policy povernment) positive influence on leverage the showed that regional development banks of equity have more than 100 billion would increase the amount of debt and the crisis negative influence on leverage because RDB reduces the amount of debt to avoiding from bankruptcy. Internal variables showed loans negative influence on leverage, assets positive influence on leverage, while profitability has not influence different from previous studies.

Keywords: Leverage, regional development banks, regional autonomy, equity

1. Research Background

These two types of banks can be found in most countries in the world. There are private owned banks and government owned banks, but the uniqueness of Indonesian banking system is that there is another government owned banks category, which is called the community development banks. Community development banks in Indonesia exist in every district. They are monetary organizations operated on a local basis. In terms of coverage, eir coverage is much smaller than the private and the publicly wined banks. RDB categorized as focused bank, ie the bank with regional focus. RDB thus able to create a healthy banking structure in the country and able to meet the needs of the community and

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to promote the ongoing economic development of Indonesia. What can be the Determinants of Capital Structure of regional development banks in Indonesia? These are the questions that the study wishes to answer.

Determining an optimal capital structure is very hot issue in the literature of finance (Amjad et al., 2012). Among the issue in the district are the first regional autonomy laws that govern the financial district balance will lead to a rise in the influence of local government funds placed in RDB. Second, this study also supports the Indonesian Financial Sector Master plan (Indonesian bank architecture), where in 2011, all Indonesian bank ownership must have a minimum capital of IDR 100 billion. Bank Indonesia introduced regulations to allow banks face crucial moments such as the current financial crisis. Third, Indonesia's financial and political crisis that occurred in 1997 until 1999. These crises resulted in decreased performance of most banks. Banks are also experiencing problems with financial difficulties and bankruptcy threats.

In previous literature, a lot of work is done on determining the factors which influence the capital structure of non-financial sectors. A number of factors were studied in this regard which would have influence on the capital structure of any organization. These factors may include profitability, size, assets' tangibility, growth opportunities, debt tax shield, earning volatility, liquidity, age and non-debt tax shield. But a little work is done on determining the capital structure of financial sectors, especially for banking sectors in Indonesia. The main purpose of this study is to fill this gap by determining which factors have significant influence on capital structure decision of banking sector in Indonesia especially regional development banks. Moreover this study is aimed at determining the influence of these determinants without the application of capital regulatory requirements.

The objective of this research is determinants of capital structure in region development banks context are examined with reference to capital structure theories. Although the determination of factors that affect the capital structure will typically be an interesting debate (Titman and Wessels, 1988; Haris and Raviv, 1991). This research is to test the influence of different explanatory variables of capital structure internal and external factors. The external variables of the economy of a country in Indonesia are regional autonomy, economic crisis and bank policy of government. The internal factor or characteristics of an individual bank are profitability, loans and size.

2.Literature Review

Based on MM theory was developed three theories. There are the trade-off theory (Bradley et al., 1984). Second pecking order theory (Myers and Majluf, 1984) and third, agency theory (Jensen and Meckling, 1976). The pecking-order theory (Myers, 1984; Myers and Majluf, 1984) suggests that capital structure choice is driven by the magnitude of information asymmetry present between the firm insiders and the outside investors. The more severe the information asymmetry, the more risk the outside investors are facing and hence the more discount they demand on the price of issued securities. Consequently, firms

will prefer financing through internal funds and if they do need to raise outside capital, they will firstly issue risk-free debt then followed by low-risk debt. Equity is only issued as a last resort.

As stated in Myers (1984), the trade-off theory assumes that firms set an optimal debt ratio and they move gradually towards it. The theory proposes that the optimal debt ratio is set by balancing the tradeoff between the benefit and cost of debt. The benefit of debt arises from the tax deductibility of interest payments on debt and the cost of debt comes in the form of higher probability of bankruptcy and the loss suffered.

Agency theory (Jensen and Meckling, 1976), predicts capital structure choice based on the existence of agency costs, i.e. costs due to conflicts of interest. According to there are essentially two sources of conflicts. Conflicts between shareholders and managers arise since managers have an incentive to consume on perquisites while putting less effort on maximizing profit for the firm. This is because managers bear the entire costs of pursuing profit maximization while they do not receive the entire gain. By increasing the level of debt, this agency cost of managerial discretion can be mitigated in the event of bankruptcy.

A. External variables

1. Regional autonomy

The determinants of firm capital structure decisions are typically examined in terms of firm-level characteristics, despite the fact that capital structure choices also likely to be determined by firm's institutional environment (Alves and Ferreira, 2011), such as legal system and financial development, in Indonesia such regional autonomy. Regional autonomy is financial balance between central and local government has provided greater opportunities for areas to optimize the management of the potential in the region. Regional development banks as the holder of the financial district, which working as regional economic development and mobilize local economic development to improve and provide financing development in the region, to raise funds and to implement and save the cash area in addition to running the activities of the banking business.

The capital of deposits in particular the government, which placed a burden on the regional development banks as well as revenue. A burden because the bank is obliged to pay the interest placed in current accounts local government. Third party funds into income for regional development bank, when placed in the form of interbank assets or loans. If the difference between the expenses and the income generated is greater than the income, the benefits to be derived, and vice versa. Therefore, this study will look at the influence of regional autonomy on bank capital structure.

2. Equity

Financial economists have recently placed more emphasis on the role of a legal system in the domain of financial decisions (Demirgüc-Kunt and Maksimovic, 1996, 1998; La Porta et al., 1997, 1998). Recently, a variety of papers have examined the adoption of different legal systems and their influence on corporate finance. La Porta et al. (1997, 1998) find that the legal environment plays a decisive role in the development of capital markets, because it influences accounting standards, shareholders' rights, and creditors' rights. They indicate that Common law countries benefit from having both good accounting standards and strong investor protection. De Jong et al. (2008) on the other hand, evaluated the role of firm and country specific determinants of capital structure in 42 countries. That the influence of specific determinants was not equal around the word because they depended on country specific factors.

In Indonesia had the Banking Master Plan Indonesia (Indonesia bank architecture), where in the year 2011, all acquisitions of banks in Indonesia must have a minimum equity of IDR 100 billion. Bank Indonesia introduced rules to allow banks face crucial moments like the current financial crisis. Therefore, this study will look at the effect of minimum capital requirements on bank capital structure. This study will test the appropriateness of this decision. If smaller banks are less likely to withstand severe economic downturn, then the coefficient of equity, which will be proxy by Dummy equity should be influence on leverage. However, it could also be argued that smaller banks will be more responsible in their lending activities since they know that imprudent lending decision would more likely to lead to bankruptcy as compared to larger banks. Banks can increase the amount of bank equity can increase the amount of debt. Therefore, this study will look at the influence of equity on bank capital structure.

3. Economic Crisis

Indonesian banking crisis began when the "net open position" increases, the value of capital ratio becomes negative and bad debt ratio to 50%. It is then followed by negative bank earnings as a result of the sharp rise in interest rates since the middle of the second half of 1997. The financial crisis has led to the banking system has experienced financial difficulties and banking structure changed very significantly. This is due to the various weaknesses in banking and is exacerbated by the financial crisis, liquidity crisis and bankrupt crises experienced by the conglomerate in Indonesia. This resulted in many banks experiencing financial difficulties and the banking sector is a threat of bankruptcy. Therefore, this study will look at the effect of economic crisis on bank capital structure. The results study Fosberg (2012) showed that negative influence on Leverage. Therefore, this study will look at the influence of crisis on bank capital structure.

B. Internal Variables



The trade-off hypothesis pleads for the low level of debt capital of risky firms (Myers, 1984). The higher profitability of firms implies higher debt capacity and less risky to the debt holders. So, as per this theory, capital structure and profitability are positively associated. But pecking order theory suggests that this relation is negative. Since, as stated earlier, firm prefers internal financing and follows the sticky dividend policy. If the internal funds are not enough to finance financial requirements of the firm, it prefers debt financing to equity financing (Myers, 1984). Thus, the higher profitability of the enterprise implies the internal financing of investment and less reliance on debt financing. Most of the empirical studies support the pecking order theory. The studies of Titman and Wessels (1988), Friend and Lang (1988), Fama and French (1998), Gleason at al. (2000), Hovakimian et al. (2001), Deesomsel et al. (2004), Cheng and Shiu (2007), Shah and Khan (2007), Gill et al. (2009), Céspedes et al. (2010) Gropp and Heider (2010), Khrawish and Khraiwesh (2010), Ellili and Farouk (2011), Afza and Hussain (2011), Alves and Feseira (2011), Siringoringo (2012), Sanistyaningrum and Gandakusuma (2012), Amjad et al. (2012) and Sharif et al. (2012) are result a negative influence profitability on leverage. While, DeAngelo and Masulis (1980), Aggarwal (1994) and Burgman (1996) are result a positive influence profitability on leverage.

2. Loans

Loans are part of the current assets, current assets of the banking sector is more important than fived bank assets because they can anage the funds rapidly. The banks prefer to have current assets greater than total assets. Many researchers used liquidity as an independent variable to measure its influence on leverage of the firm. Basically liquidity is the ability of any firm to meet its short term obligation when they become due. Ozkan (2001) reported that higher liquidity ratio implies that a firm has more power to pay its debt as they become due, hence, the firm can structure its financing pattern by taking more debt rather than issuing equity. This research shows that liquidity has direct relationship with leverage ratio. Yu (2000) also observed that banks with more liquidity have positive influence on leverage. On the other hand, Tong and Green (2005) observed an inverse relationship of liquidity with leverage. Childs et al. (2005) concluded that firms avoid interest rate and liquidity risk and have negative relation of long term debt ratio with liquidity. Similarly Guney et al. (2011), Mishra and Tannous (2010), Amjad et al. (2012) and Sharif et al. (2012) are result a negative influence liquidity on leverage.

5 esomsak et al. (2004), Tong and Green (2005), Viviani (2008), Afza & Hussain, (2011), Guney et al. (2011), Mishra and Tannous (2010) and Sharif et al. (2012). While Yu (2000). Ozkan (2001) and Fama and French (2002) are result a positive influence liquidity on leverage.

4 3. Size

Leverage is expected to be positively influenced by size. The most plausible reason to explain such relationship is bankruptcy costs (Warner, 1977; Marsh, 1982; Rajan and Zingales, 1995). That is: first, large firms have, on average, lower bankruptcy costs – this

type of costs are in, general, more fixed – than small firms; second, large firms have in principle more diversified portfolios, with less probability of bankruptcy; third, financial institutions, because they have less information about a small firm, need to allocate more resources concerning the firm's monitoring, and penalize it by asking for higher interest rates. Although the vast majority of research shows a positive relationship between size and leverage, such as Rajan and Zingales (1995) and Shenoy and Koch (1996), there is also some research that reveals the opposite results, namely those obtained by Titman and Wessels (1988). The bankruptcy cost theory explains the positive relation between the capital structure and size of a firm. The large firms are more diversified, have easy access to the capital market, receive higher credit ratings for debt issues, and pay lower interest rate on debt capital. Further, larger firms are less prone to bankruptcy (Titman and Wessels 1988) and this implies the less probability of bankruptcy and lower bankruptcy costs. The bankruptcy cost theory suggests the lower bankruptcy costs, the higher debt level.

Wald (1999), Fama and French (25)2), Baral (2004), Deesomsak at al. (2004), Istaitieh and Rodríguez-Fernández (2006), Cheng and Shiu (2007), De Jong at al. (2008), Serrasqueiro and Rogão (2009), Lin et al. (2009), Céspedes et al. (2010), Gropp and Heider (2010), Khrawish and Khraiwesh (2010), Ellili dan Farouk (2011), Siriforingo (2012), Sanistyaningrum dan Gandakusuma (2012), Guney et al. (2011), Amjad et al. (2012) and Sharif et al. (2012) are finding a positive influence size on leverage. While, Shah and Khan (2007) and Mishra and Tannous (2010) are results a negative influence size on leverage.

3. Research Methods

The population consists of 26 community development bank 2 The study 14 regional development banks because of difficulty in getting the data. The period under study is from 1995 to 2010. The data are taken from banks' annual reports. In this study using panel data and analysis using pooled ordinary least square (OLS) and random effect, while fixed effect is not used in the analysis because the number of banks has no 2 hanged to any bank during the study period and there were three dummy variables. To test capital structure of community development banks, the following model is estimated:

$$LEV_{it} = \beta_0 + \beta_1 *DRA_{it} + \beta_2 *DEQUITY_{it} + \beta_3 *DCRISIS_{it} + \mathbf{Z}^T \boldsymbol{\alpha} + e_{it}$$

where

LEV_{it}: Leverage that total debt to total assets of bank i in period t,

DRA_{it}: A dummy regional autonomy that takes on a value of one if t is from 2000 to 2010, zero otherwise,

DEQUITY_{it}: A dummy equity variable that takes on a value of one if bank i has equity in excess of IDR 100 million in period t, zero otherwise.

DCRISIS_{it}: A dummy crisis variable that takes on a value of one if t is from 1997 to 1999, zero otherwise,

Z: A matrix of control variables, which in luded net income to total assets (ROA), loans to assets (LOANS) and natural logarithm of total assets (ASSETS). e_{it} : error term of bank i in period t.

4. Result and Discussion

Table 1 provides information on the degree of correlation between the explanatory variables used in the multivariate regression analysis. The matrix shows that in general the correlation between the variable that are used in the analysis is not strong suggesting that multicollinearity problem are either not severe or non-existent. Kennedy (2008) and Gujarati (2009) points out that multicollinearity is a problem when the correlation is above 0.8, which is not the case here. To ensure that there is no problem of multicollinearity, variance inflation factor (VIF) are estimated and since the results show that the VIF are below 10.

Table 1: Correlation matrix

	LEV	DRA	DEQUITY	DCRISIS	ROA	LOANS	ASSETS
LEV	1.000						
DRA	0.163	1.000					
DEQUITY	0.124	0.800	1.000				
DCRISIS	-0.248	-0.712	-0.570	1.000			
ROA	-0.085	-0.139	-0.106	0.204	1.000		
LOANS	-0.819	-0.135	-0.039	0.164	0.055	1.000	
ASSETS	0.096	0.484	0.527	-0.349	-0.074	-0.007	1.000

LEV is total debt to total assets; DRA is A dummy regional autonomy that takes on a value of one from 2000 to 2010, zero otherwise; DEQUITY is A dummy equity variable that takes on a value of one bank has equity in excess of IDR 100 million, zero otherwise; DCRISIS is A dummy crisis variable that takes on a value of one if from 1997 to 1999, zero otherwise; ROA is net income to total assets; LOANS is loans to total assets and ASSETS is natural logarithm of total assets

Table 2 presents the pooled regression results without adjusting standard errors and with robust standard errors for heteroscedasticity. When we test for heteroscedasticity using Breusch-Pagan test, we find that we can reject the null hypothesis of equal variances. Thus, a better estimation model should account for heteroscedasticity Table 2 reports the results

based on adjusted standard errors using heteroscedasticity-adjusted standard error. We find that all coefficients are significant for LEV except ROA variable. The result regression with random effects show that DCRISIS and LOANS are significant on LEV (Table 3).

Table 2: Regression without adjusting and with robust standard errors Dependent variable: LEV

Variable	OLS without s	standard errors	OLS with r	OLS with robust standard errors	
	Coef.	p-value	Coef.	p-value	
Constan	1.0144	***000.0	1.0144	0.000***	
DRA	0537	0.017**	0537	0.003***	
DEQUITY	.0327	0.079*	.0327	0.006***	
DCRISIS	0539	0.006***	0539	0.016**	
ROA	0098	0.633	0098	0.742	
LOANS	2820	***000.0	2820	0.000***	
ASSETS	.0033	0.165	.0033	0.099*	
D 1	0.6047		0.6047		
R-squared	0.6947		0.6947		
Adjusted R-squared	0.6863				
Prob > F	0.0000.0		0.0002		
Number observation	224		224		

LEV is total debt to total assets; DRA is A dummy regional autonomy that takes on a value of one from 2000 to 2010, zero otherwise; DEQUITY is A dummy equity variable that takes on a value of one bank has equity in excess of IDR 100 million, zero otherwise; DCRISIS is A dummy crisis variable that takes on a value of one if from 1997 to 1999, zero otherwise; ROA is net income to total assets; LOANS is loans to total assets and ASSETS is natural logarithm of total assets. *, ** and *** denote significance at the 10%, 5% and 1% level, respectively, p-value in parentheses

Table 3: Regression with random effects Dependent variable: LEV

Variable	Coef.	p-value	
Constan	1.0099	0.000***	
DRA	0341	0.108	
DEQUITY	.0082	0.653	

DCRISIS	0525	0.003***	
ROA	0189	0.324	
LOANS	2823	***000.0	
ASSETS	.0037	0.106	
R-squared	0.6919		
Prob > chi2	0.0000		
Number observation	224		

LEV is total debt to total assets; DRA is A dummy regional autonomy that takes on a value of one from 2000 to 2010, zero otherwise; DEQUITY is A dummy equity variable that takes on a value of one bank has equity in excess of IDR 100 million, zero otherwise; DCRISIS is A dummy crisis variable that takes on a value of one if from 1997 to 1999, zero otherwise; ROA is net income to total assets; LOANS is loans to total assets and ASSETS is natural logarithm of total assets. *, ** and *** denote significance at the 10%, 5% and 1% level, respectively, p-value in parentheses

DRA (regional autonomy) has a negative influence on LEV. This suggests that regional autonomy with effect from the year 2000, region development banks can lower the amount of debt because it have received additional funding from the local government such kept in current accounts deposited or serve as additional equity on RDB. The funds from the local government can reduce RDB to increased hunting effort deposit so that the composition of debt can be reduced. In addition, funding of local governments can be used to be placed in Bank Indonesia Certificates which at the beginning of the second quarter of 2007, total deposits of all positions in the region development bank placed around IDR 96 trillion or 24, 35% of all total banks.

DEQUITY has a positive influence on LEV. This suggests that the RDB has equity greater than IDR 100 billion more to add to the amount of debt. This condition is to maintain the bank's financial risk in the amount of the debt to equity ratio. In these circumstances the local government will assist RDB when adding equity if deposit funding has increased. RDB will be able to increase the amount of debt to be distributed on loan.

DCRISIS has a negative influence on LEV. This indicates that financial crisis in Indonesia, RDB reduces the amount of debt due to deduct interest payments on debt are high and keep the bank from bankruptcy. This finding is consistent with Fosberg (2012) who find a negative relationship of crisis on leverage.

The relationship between ROA and LEV, while a negative expected, is not statistically significant. This may be due to the advantage of RDB handed over to local government funding sources that are not used as an internal bank to reduce the amount of bank debt. The result is contrast with most previous such as Gropp and Heider (2010), Khrawish and Khraiwesh (2010), Ellili and Farouk (2011), Afza and Hussain (2011), Alves 3rd Ferreira (2011), Siringoringo (2012), Sanistyaningrum and Gandakusuma (2012) and Sharif et al. (2012) there are a negative influence of ROA on leverage.

The realt showed that LOANS negative influence on LEV. This suggests that the level of loans has a significant influence on the ability of banks to provide funds. Loans is high as seen from the level of non-performing loans from a bank, it can reduce the level of public confidence, which led to banks having difficulty in raising funds from third parties, thus reducing the sources of debt financing. The result related to Guney et al. (2011), Mishra and Tannous (2010) and Sharif et al. (2012) which show that a negative influence of liquidity on leverage.

The finding showed that ASSETS positive influence on LEV. These results are consistent with the trade-off theory in which the ASSETS of large banks tend to use more debt in comparison small bank. Large size RDB indicates that the bank has a large asset such as this tend to use bank debt in the capital structure have greater access easier to obtain bank loans because these are considered to have a smaller risk of bankruptcy than small banks. The result is consistent with previous research study conducted by Wald (1999), Fama and French (252), Baral (2004), Deesomsak at al. (2004), Istaitieh and Rodríguez-Fernández (2006), Cheng and Shiu (2007), De Jong at al. (2008), Serrasqueiro and Rogão (2009), Lin et al. (2009), Céspedes et al. (2010), Gropp and Heider (2010), Khrawish and Khraiwesh (2010), Ellili and Farouk (2011), Siringoringo (2012), Sanistyaningrum and Gandakusuma (2012), Guney et al. (2011), Sharif et al. (2012) showed ASSETS positive influence on leverage.

5. Conclusion

The result of study assist in examining the determinants of capital structure of regional development banks in Indonesia. The period under study is from 1995 to 2010. Our study uncovers interesting results. We find that regional autonomy has a negative influence on leverage. This showed that region development banks can lower the amount of debt because it have received additional funding from the local government such kept in current accounts deposited or serve as additional equity on RDB. Dummy equity has a positive influence on leverage. This showed that the local government will assist RDB when adding equity if deposit funding has increased. RDB will be able to increase the amount of debt to be distributed on loan. Economic crisis has a negative influence on leverage. This showed that RDB reduces the amount of debt due to deduct interest payments on debt are high and the properties are the amount of debt due to deduct interest payments on debt are high and assets positive influence on leverage. While the ROA a negative expected, is not statistically significant. In future research to obtain better results expected in order to addition the variable and comparing with private and government banks.

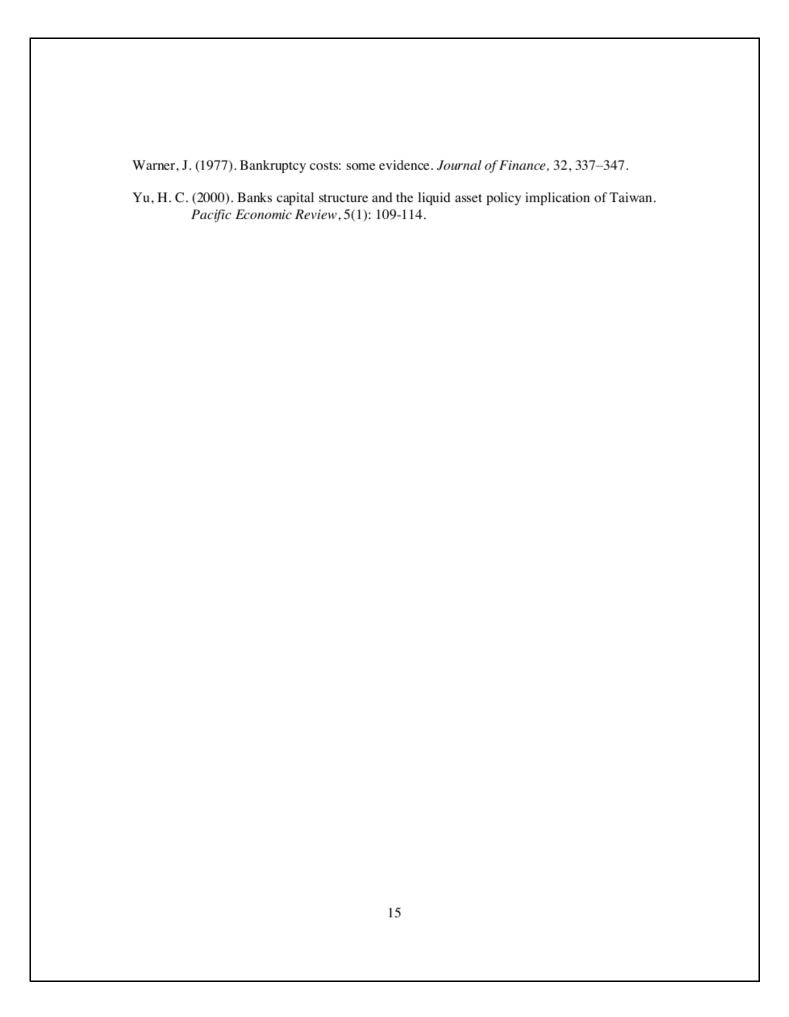
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