## Are Foreign Banks more Profitable than Domestic Banks? Home- and Host-Country Effects of Banking Market Structure, Governance, and Supervision

## Sheng-Hung Chen\*

Assistant Professor Department of Finance Nan Hua University, Chiayi, Taiwan Mail Address: 32, Chung Kung Li, Dalin, Chiayi, 62248, Taiwan Phone: +886 5 2721001 ext 56541; Mobile: +886 9 35575138 Fax: +886 5 2427172 E-mail: shenghong@mail.nhu.edu.tw

\*Corresponding author

## **Chien-Chang Liao**

Graduate Student Graduate Institute of Financial Management Nan Hua University, Chiayi, Taiwan Mail Address: 32, Chung Kung Li, Dalin, Chiayi, 62248, Taiwan Phone: +886 5 2721001 ext 2051; Mobile: +886 9 22917938 Fax: +886 5 2427172 E-mail: macrossgods@yahoo.com.tw

October 2009

## Are Foreign Banks more Profitable than Domestic Banks? Home- and Host-Country Effects of Banking Market Structure, Governance, and Supervision

#### Abstract

Identifying key factors influencing bank profitability is of importance to improve bank internal management and perform banking policies. However, previous literature pays much less attention to the substantial influence of banking market structure, the quality of institution, and supervision across country on bank profitability, particular focusing on domestic versus foreign banks. Hence, using both bank- and country-level data on banking sectors from 70 countries over 1992 to 2006, this paper empirically identifies cross-country determinants of bank profitability in domestic versus foreign banks with respect to bank characteristics, macroeconomics environment, the quality of institution, country risk, banking regulation, and supervision across countries. More specifically, this paper further investigates the joint influences of differences in macroeconomic condition, and institution between host and home country on foreign banks. The empirical results reveal that foreign banks show better profitable than domestic banks. Banks operating in more comparative market show less profitable while the cross-country difference in regulation and supervision also affect foreign bank's margins. Specifically, our finding indicates that foreign banks profitability is partially and negatively related to inflation rate, develop level, regulatory quality in home country. While GDP growth rate, country risk, regulatory quality and government effectiveness in host country also significantly and negatively affect foreign bank profitability.

**Keywords:** Bank Profitability, Foreign Banks, Banking Competition, Panzar and Rosse *H*, Quality of Institution, Country Risk, Regulatory Supervision

JEL Classification: E32, L11, G21, G28

## 1. Introduction

In recent year, financial services have become increasingly important. Many banking institutions have also become international. On the one hand, internal determinants are factors that are mainly changed by a bank's management decision and policy destination. Such profitability determinants are related to the level of liquidity, provisioning policy, bank size, capital adequacy and expenses management. On the other hand, the external determinants, both industry-related and macroeconomic, are factors reflecting the legal environment and economic where the financial institutions operate. Bank profitability is mainly affected by domestic and foreign economic activity. Moreover, the impact of globalization wave, the transition of national governance or legal environment would alter the banking structure and affect bank profitability in turn. However, scarce literature pays close attention on the significant influence of banking structure on profitability persistence in domestic banks and foreign banks, but this issue is crucial for international competitive advantages. Therefore, the aim of this paper is to empirically investigate the key determinants of bank profitability in 70 countries with respect to banking market structure differentials, particular in foreign versus domestic banks. This paper further exploit the influence of cross-country differences in macroeconomic environment and institution governance between the host and home country on bank profitability, especially focusing on this impact on foreign banks.

According to the survey on global industry profit conducted by *The McKinsey Company* in 2006 (see Figure 1), Dietz et al. (2008) indicates that the revenues and profits in the banking industry amounted to 788 billion that is the

3

highest in comparison to other industry. As Figure 2 shown, it is noted that from 2000 to 2006 developed countries grew significantly faster profits than those in the world. However, previous studies on bank profitability focus on evaluating the impact of various factors explaining profits, such related research as Ho and Saunders (1998), Molyneux and Thornton (1992), Demirgüç-Kunt and Huizinga (2000) and Goddard et al. (2004). In addition, Jaffee (1989) earlier indicated that as economic theory suggested the interest spread would be affected by following factors: (i) the degree of market concentration that affected bank profitability; (ii) regulatory constraints that prohibited the bank from undertaking certain profitable activities and increased the cost of providing permissible activities; (iii) higher credit risk would reduce expected profits, and (iv) exposures to interest rate risk. In terms of macroeconomic factors, some researchers recently examined the impact of GDP on the bank profits (Brock and Suarez, 2000; Staikouras and Wood, 2003; Williams, 2003; Claeys and Vennet, 2008) and the others assessed the impact of inflation on bank profit (Pasiouras and Kosmidou, 2007, Kosmidou et al., 2007; Athanasoglou et al., 2008). Furthermore, recent literature pays close attention on the effect of interest rates and banking market structure on bank profitability (see Saunders and Schumacher, 2000; Maudos and Guevara, 2004), credit risk (Angbazo, 1997; Maudos and Guevara, 2004), some bank-specific factors like interest rate, loans to assets, and bank's market shares (Claeys and Vennet, 2008), non-interest revenue (Spathis et al., 2002). The paradigm of *Structure-Conduct-Performance* (SCP) is frequently utilized to evaluate bank's performance and indicated a positive empirical relationship between market concentration and bank profitability (Kosmidou et al., 2007; Pasiouras and Kosmidou, 2007). This relationship strongly implies that a bank

could gain monopoly rents as banking market concentration increasing. Even though there has been a number of studies identifying determinants of bank profitability in selective countries or regions, but understanding the impact of banking market structure across country on bank profitability persistence is few addressed for empirical analysis, particular in context of international comparison.

Traditional perspective of industrial organization explicitly suggests that bank entry leads to more competition ultimately helpful for borrowers welfare, but harmful to bank's monopoly rents. In recent, the market structure of the banking industry in many developing countries has undergone significant changes as ongoing financial liberalization encourages the entry of foreign bank into their domestic banking market and then results in a substantial impact on banking competition. As Peria and Mody (2004) indicated, it was found that the increasing in foreign bank entry to Latin America results in decreasing level of bank concentration in developing countries. Especially, Maudos and Guevara (2004) demonstrated that banking sectors in European (including Germany, France, the United Kingdom, Italy, and Spain) over the period 1993 to 2000, proxied the Herfindahl index and Lerner index, measured as the degree of concentration and market power. The authors pointed that the Herfindahl index and Lerner index presented the significantly positive impact of market concentration on the interest margin. Lately, proliferating studies focus on evaluating the effect of market structure on bank profitability in selective countries, but international evidences based upon cross-country difference in banking market structure is sparse to have clearer understanding.

Allowing the entry of foreign banks as a whole produced positive

 $\mathbf{5}$ 

externalities to the domestic banking sector due to spillover effect from know-how and expertise in foreign banks (Thorne, 1993). Claeys and Hainz (2006) conducted a theoretical analysis in which domestic banks have private information about their incumbent clients but foreign banks have better screening skills. As a result, foreign bank entry would drive down a country's average interest rate for new loans. Otherwise, some studies have noted that foreign banks might not have knowledge of the specific market at the time of entrance or that they might be otherwise disadvantaged compared with domestic banks (Berger et al., 2000; Kosmidou et al., 2004; DeYoung and Nolle, 1996; and Mahajan and Zardkoohi, 1996), some studies found no significant performance differences between foreign and domestic banks (Vander Vennet, 1996; Hasan and Lozano-Vivas, 1998) or other study finds better performance by domestic banks (Sturm and Williams, 2004). Foreign bank participation has been a fact of the larger process of financial liberalization and international coalition experienced by developing countries in recent years. Empirical evidence shows that in emerging markets, foreign banks are more profitable and more efficient than domestic banks (Demirgüç-Kunt and Huizinga, 2000; Claessens et al., 2001; Bonin et al., 2005; Grigorian and Manole, 2006; Berger et al., 2009). On the contrary, others find the opposite result (Nikiel and Opiela, 2002; Yildirim and Philippatos, 2007). And some studies find no significant difference between domestic and foreign banks (Crystal et al., 2001; Mian, 2003). The other studies have shown that foreign banks are disadvantaged compared to domestic banks in developed countries (Peek et al., 1999; Berger et al., 2000; Claessens et al., 2001; Sathye, 2001). However, empirical analysis for the performance of foreign banks mainly concentrated on the case of EU or US banks operating abroad. Extensions

to the case of foreign banks operating in other countries include studies by Williams (1996, 1998a, 1998b, 2003) for Australia; Minh and Tripe (2002) for New Zealand; Ursacki and Vertinsky (1992) for Japan and Korea; Engwall et al. (2001) for the Nordic countries, and Dietrich and Wanzenried (2009) for Switzerland. Most studies compared the performance of domestic banks with foreign banks for single country. Even though the issue on performance of foreign banks is not new, but there is lack of consensus on empirical evidences about whether foreign banks are more profitable than domestic banks as well as whether cross-country differences in banking market structure matter bank's profitability, particular in the context of international comparison. To this end, this study aims to empirically investigate key factors affecting bank profitability in foreign banks versus domestic banks in 70 countries with respect to differences in banking market structure, macroeconomic cross-country environment, and institutional governance. Next to macroeconomic environment measures and institutional governance variables, This study also use regulation and supervision variables to investigate the joint effects on banking environment. In addition, Jorion (2006) considered as a essential guideline for banking supervisors initially proposed by Basel Committee on Banking Supervision since 1996. It indicates that well informed market participants will reward a risk-conscious management strategy by credit institutions in their asset allocation decisions. And the country condition and financial development are proxied as the risk rating of country risk collected from IHS Global Insight Inc. The data on the rating of country risk only covers 1998 to 2006 and data of Government Supervision is over 2000 to 2006.

Therefore, this paper contributes to previous studies in three aspects.

7

Firstly, this study explore long relationship between bank profitability and changing market structure in banking industry in 70 countries for the period 1992 to 2006. Second, this study examine whether cross-country differences in macroeconomic condition and institutional governance between host country and home country where foreign banks and domestic banks compete make their profitability different. Third, this study use bank regulation and supervision and country risk to test the influence of market participants and institutional environment in host and home country.

## 2. Literature Review

Previous literature related to bank profitability could be classified into two major categories. The first one conducts cross-country comparison of bank profitability. The second one investigates the impact of banking market structure on bank profit. The detailed findings are discussed in the following sections.

## 2.1 International Comparison of Bank Profitability

The empirical literature on bank profit highly focuses on European countries. Williams (1996) constructed a model that attempts to explain the performance of Japanese financial institutions in Australia. In general the model proposed performs well for size measures, but comparatively poorly for measures of profitability. Brock and Suarez (2000) reported that bank spreads in the 1990s were influenced by liquidity and capital risk at the bank level, and by interest rate volatility, inflation and GDP growth at the macroeconomic level, although the results differed across countries. Claessens et al. (2001) analyzed 7,900 banks from 80 countries for the period 1988 to 1995, indicating that foreign banks enjoyed higher profits than domestic banks especially operating in developing countries, but the opposite was the case for developed countries.

Additionally, Kosmidou et al. (2007) examined the determinants of profits for Greek banks operating abroad and analyzed 19 Greek bank subsidiaries operating in 11 nations over the period from 1995 to 2001. Their findings showed that the profitability of the parent bank and the operating experience of its host nation had a robust and positive impact on the profits of Greek banks abroad. In recent, Claeys and Vennet (2008) investigated the determinants of bank interest margins in the CEEC with a sample of 1,130 banks from 31 Western and Eastern European countries (hereafter, WEEC) over the years 1994 to 2001, indicating that capital ratio and market concentration were positive and significant for both the WECC and accession countries. Claessens and Horen (2009) Studying the performance of foreign banks in 51countries between 1999 and 2006, foreign banks tend to perform better compared to domestic banks when coming from a high income country, but worse when coming from a developing country. Even though these related research reveals the cross-country determinants of bank profit some regions, but the international evidence is still at the earlier stage.

### 2.2 Banking Market Structure and Bank Profitability

Investigating the impact of market structure on bank profit, Saunders and Schumacher (2000) found that over the period 1988 to 1995 interest margins in six European countries and the US were affected by the degree of bank capitalization, bank market structure, and the volatility of interest rates, respectively. Moreover, Corvoisier and Gropp (2002) exhibited that higher concentration might have resulted in less competitive pricing by banks located in the euro area for the period 1993 to 1999. Bikker and Haaf (2002) applied the Panzar–Rosse model to measure banking competition as 23 countries considered, providing support for the conventional view that concentration impairs banking competitiveness.

Similarly, Beck et al. (2003) concluded that highly concentrated banking systems were less likely to suffer from crises. As Maudos and de Guevara (2004) shown, it was a statistically significant and positive correlation between concentration and bank interest margins for the period 1993 to 2000 for European banking markets. Furthermore, Maudos and Guevara (2004) used the Lerner index proxied as the degree of competition in banking markets. In resent, Athanasoglou et al., (2008) applied a GMM technique to a panel of Greek banks over the period 1985 to 2001, indicating that concentration negatively affected bank's profitability but this effect was relatively insignificant. Lately, Carbó et al. (2009) used five indicators as loan-deposit interest spread, Lerner Index, and bank's net income to the value of total assets, Panzar-Rosse H-statistics, and Hirschman-Herfindahl Index, to infer competitive behavior. They found that the determination of competition may differ depending on the measure chosen to assess it. This is because the competition indicators measure different things. Berger et al. (2009) test indicators of market power to measures the loan risk, bank risk, and bank equity capital, as well as indicators of the business environment. The results suggest that banks with a higher degree of market power also have less overall risk exposure and market power increases loan

portfolio risk. In summary, these authors indicate that banking market structure has a substantial influence on bank profitability.

### 3. The Model

### 3.1 Theoretical Framework

Following the theoretical perspective from Ho and Saunders (1998) as well as Saunders and Schumacher (2000), a bank is viewed as a risk-averse dealer in the credit market, acting as a dealer in a market for the immediate provision of deposits and loans. Thus, the major portfolio risk come from interest-rate fluctuations or volatility, before any deposits or loans are made, Risk-averse banks facing asymmetric arrival time for the demand for loans and the supply of deposits select optimal loan and deposit rates which minimize the risk of excessive demand for loans or insufficient supply of deposits. Therefore, rates could be as set up as following structure:

$$R_{D} = R - \alpha, R_{L} = R + \beta \tag{1}$$

where  $R_D$  is the rate set on deposits,  $R_L$  is the rate set on loans, R is the expected risk-free interest rate,  $\alpha$  and  $\beta$  are fees charged by the bank in order to provide immediacy and to bear interest rate risk. The fees  $\alpha$  and  $\beta$  have to compensate the bank for bearing this interest-rate risk. The optimal fees  $\alpha$ ,  $\beta$  and thus the spread  $sp = (\alpha + \beta)^3$  is expressed as:

$$sp = (\alpha + \beta) = \frac{\gamma}{\theta} + \frac{1}{2} R \sigma_I^2 Q$$
<sup>(2)</sup>

where  $\frac{\gamma}{\theta}$  measures the bank's risk neutral spread and is the ratio of the intercept ( $\gamma$ ) and the slope ( $\theta$ ) of the symmetric deposit and loan arrival functions of the bank. A large  $\gamma$  and a small  $\theta$  will result in a large  $\frac{\gamma}{\theta}$  and, hence, large spread (*sp*). It means that, if a bank faces relatively inelastic demand and supply functions in the markets in which it operates, it may be able to exercise monopoly power by demanding a greater spread than it could get if banking markets were competitive (low  $\frac{\gamma}{\theta}$  ratio).

The ratio of  $\frac{\gamma}{\theta}$  provides some measure of the producer's surplus or monopoly rent element in bank spreads or margins. The second term is a first-order risk-adjustment term and depends on three factors: (i) R, the bank management's coefficient of absolute risk aversion; (ii) Q, the size of bank transactions; and (iii)  $\sigma^2$ , the instantaneous variance of the interest rate on deposits and loans. Note that the second term implies that, ceteris paribus, the greater the degree of risk aversion, the larger the size of transactions and the greater the variance of interest rates, the larger bank margins are. This spread equation has an important implication, even if banking markets are highly competitive, as long as a bank's management is risk-averse and faces transaction uncertainty, positive bank margins will exist as the price of providing deposit–loan immediacy.

#### 3.2 Measuring Banking Market Structure

There are four measures proxied as the market structure in the banking industry as follows: Panzar-Rosse *H*-statistics, Herfindhal Index (HHI), Lerner Index and Concentration Ratio (CR4).

#### 3.2.1 Panzar-Rosse H-statistic

This paper applies the widely used Panzar-Rosse model to measure competition in the banking industry. Earlier, Panzar and Rosse (1987) provide a convenient framework for assessing banking market structure. The P-R model uses bank-level data and measures how a change in factor input prices is reflected in equilibrium revenues earned by banks. In a situation of perfect competition, marginal costs and total revenues will increase proportionally to input prices. In a monopoly, however, an increase in factor input prices will raise marginal costs but reduce output and hence total revenues. In order to apply the P-R approach to our data, following Bikker et al. (2007) and Bikker and Haaf (2002) estimate for each country the following empirical reduced form equation of bank revenues :

$$\ln(\pi_{i,t}) = \alpha + \beta \ln PF_{i,t} + \gamma \ln PL_{i,t} + \delta \ln PK_{i,t} + \sum_{j} \xi_{j} + \eta OI + \varepsilon_{i,t}$$
(3)

where t is the number of periods observed, and i is the total number of banks. In denotes the natural logarithmic operator.  $\pi$  is bank's interest revenues. *PF* stands for annual funding rate, calculated as interest expense to total funds (IE/FUN) (as the proxy for unit price of fund). *PL* denotes price of personnel expenses, calculated as annual personnel expenses to total assets (PE/TA) (as the proxy for unit price of labor). PK is the price of physical capital expenditure, calculated as non-interest expenses to fixed assets (ONIE/FA) (as the proxy for unit price of capital). OI is calculated as the ratio of the income to total assets. In order to apply the P-R approach to our data, this paper use the following empirical reduced form equation of bank revenues, in line with Equation (3):

$$\ln (\pi_{i,t}) = \alpha + \beta \ln PF_{i,t} + \gamma \ln PL_{i,t} + \delta \ln PK_{i,t} + \eta_1 \ln LNASST_{i,t} + \eta_2 \ln NONTA_{i,t} + \eta_3 \ln DPSF_{i,t} + \eta_5 \ln EQTA_{i,t} + \eta_5 OI + \varepsilon_{i,t}$$

(4)

LNASST is the ratio of loans to total assets, representing the credit risk on banks. NONTA is defined as the ratio of other non-earning assets to total assets. DPSF is the ratio of customer deposits to the sum of customer deposits and short term funding. EQTA is generated by the ratio of equity to total assets ratio. Although the choice of dependent and explanatory variables often varies, Equation (4) is similar to what is commonly used in the literature.

The model posits that banks use three input factors-namely, deposits, labor, and physical capital. *PF*, *PL* and *PK* are the unit prices of these three inputs or reasonable proxies. A number of bank-specific factors are included to account. The *H* statistic is calculated as the sum of the elasticities of a bank's total revenue with respect to that bank's input prices. Hence, based on Equation (4), this statistic equals *H* statistic equals  $H = \alpha + \beta + \gamma$ . The estimated value of the *H*-statistic ranges between  $-\infty$  and 1. Under perfect competition, a decrease in input prices reduces marginal costs and revenues by the same amount as a cost reduction (H=1). A value of the H-statistic between 0 and 1 indicates monopolistic competition. Values equal or less than 0 is consistent with monopoly behavior (as a decrease in input prices decreases marginal costs but would not also reduce revenues). This methodology is widely utilized in banking literature in resent year and some empirical findings are presented and summarized in Table 1.

## 3.2.2 Herfindhal Index

This paper defines the Herfindhal Hirschman Index as the following formula:

$$HHI = \sum_{i=1}^{3} s_i^2 , \qquad (5)$$

where  $s_i$  stands for the share of the total volume of loans (deposits or assets) of the *i*th group of financial institutions. The HHI is calculated by summing the squared market shares of all banks in the industry is proxied on the assumption that competition takes place on a national scale, as only in the case of big banks and in wholesale markets could a greater than national market be assumed. The fewer the firms in the banking industry, and the more the industry is dominated by a small number of them, the higher the value of the index.

## 3.2.3 Lerner Index

Following the theoretical perspective from Berger et al. (2009), The Lerner Index, which can be characterized as the negative inverse of demand elasticity, is used as a proxy of market power. The Lerner index represents the mark-up of price over marginal costs and is an indicator of the degree of market power. A high Lerner Index indicates a strong degree of monopoly in the banking market, while in a highly competitive market the sector has less capacity to set high margins resulting in a low Lerner index. It is a "level" indicator of the proportion by which price exceeds marginal cost. The empirical expression of the Lerner index is

$$LERNER = \frac{p - MC}{p}$$
(6)

where p is the average price of a bank (proxied as the quotient between total revenues and total assets) and MC is the marginal cost of total assets calculated from the estimation of a translogarithmic costs function. Where the total costs depend on the prices of three inputs, on the bank's volume of production (total assets), the costs function estimated is as follows:

$$\ln Cost_{it} = \beta_o + \beta_1 \ln Q_{it} + \frac{1}{2} \beta_2 \ln Q_{it}^2 + \sum_{k=1}^{3} \gamma_{kt} \ln W_{k,it} + \sum_{k=1}^{3} \phi_k \ln Q_{it} \ln W_{k,it} + \sum_{k=1}^{3} \sum_{j=1}^{3} \ln W_{k,it} \ln W_{j,it} + \varepsilon_{it}$$
(7)

Where  $Q_{it}$  represents a proxy for bank output or total assets for bank *i* at time *t*, and  $W_{k,it}$  are three input prices.  $W_{1,it}$ ,  $W_{2,it}$  and  $W_{3,it}$  indicate the input prices of labor, funds, and fixed capital, respectively, the input prices are defined as follows:  $(W_{1,it})$  = personnel costs/ total assets;  $(W_{2,it})$  = interest expenses / total deposits;  $(W_{3,it})$  is other operating and administrative expenses / total assets.

$$MC_{TA_{it}} = \frac{Cost_{it}}{Q_{it}} \left[ \beta_1 + \beta_2 \ln Q_{it} + \sum_{k=1}^3 \phi \ln W_{k,it} \right]$$
(8)

Finally, the Lerner index is averaged over time for each bank *i* for inclusion in the regression model, and it is the measure of competition that is computed at the bank level.

## 3.2.4 Concentration Ratio

6

The concentration ratio is proxy as the degree of banking competition in a national banking sector. This indicator could be measured as the combined market share of the four biggest banks (CR4) in terms of total assets (deposits or assets). Williams (2003) suggested that concentration ratio may act as a barrier to entry when entering markets where domestic banks are highly concentrated, implying a negative impact on profits.

## 4. Empirical Specification and Data

## 4.1 Empirical Specification

To investigate cross-country determinants of bank performance, we use bank- and country-level data and standard indicators of bank profitability such as net interest margins, return on assets (ROA), and return on equity (ROE), alternatively. Following previous studies on empirical specifications as Berger et al. (2009), Claessens and Horen (2009), Dietrich and Wanzenried (2009), and Maudos and Fernández de Guevara (2004), we set up our model using a numbers of explanatory variables explained and described in Table 2:

$$\Pi_{i,j,t} = \alpha_{0} + \alpha_{1}FB_{i,j,t} + \alpha_{2}COST_{i,j,t} + \alpha_{3}SIZE_{i,j,t} + \alpha_{4}LI_{i,j,t} + \alpha_{5}CR_{i,j,t} + \alpha_{6}IP_{i,j,t} + \alpha_{7}OPC_{i,j,t} + \alpha_{8}NOI_{i,j,t} + \alpha_{9}OBS_{i,j,t} + \alpha_{10}EL_{i,j,t} + \alpha_{11}MS_{i,j,t} + \alpha_{12}OOI_{i,j,t} + \alpha_{13}MST_{j,t} + \sum_{s=1}^{3} \left( \gamma_{s}FB_{i,j,t} \times MacEcon_{j,t}^{Host} + \delta_{s}FB_{i,j,t} \times MacEcon_{j,t}^{Home} \right) + \sum_{p=1}^{3} \left( \lambda_{p}FB_{i,j,t} \times GQuality_{j,t}^{Host} + \mu_{p}FB_{i,j,t} \times GQuality_{j,t}^{Home} \right) + \sum_{r=1}^{2} \left( \kappa_{r}FB_{i,j,t} \times Risk_{j,t}^{Host} + \theta_{r}FB_{i,j,t} \times Risk_{j,t}^{Home} \right) + \sum_{h=1}^{10} \left( \pi_{h}FB_{i,j,t} \times REG_{j,t}^{Host} + \phi_{h}FB_{i,j,t} \times REG_{j,t}^{Home} \right) + \xi_{i,j,t}$$
(9)

where  $\Pi_{i,j,i}$  in equation (9) stands for bank's profitability for bank *i* in country *j* in year *t*;  $\xi_{i,j,i}$  represents for the error term. There are three measures on bank's profitability as *NIM*, *ROA*, and *ROE* used alternatively for dependent variable. *NIM* is the net interest margin generated by the net interest income (= interest income – interest expense) divided by current assets. This ratio suggests that the higher net interest margin implies better performance. *ROA* is defined as the net profit divided by total assets represents the earning performance of the bank based on the total assets. *ROE* is calculated as the return on equity which is the net profit after tax divided by the shareholders' equity and represents the earning performance of the bank based on the shareholders' stake.

As for several independent variables, we cover bank characteristics, foreign bank, banking market structure, macroeconomic and quality of institution between home and host country for empirical analysis.  $FB_{i,j,t}$  is the foreignership-specific indicator proxied as the dummy variable which is equal to one for foreign-owned bank if their shareholding is up to 50% or more, and zero for domestic-owned banks. The list of foreign banks included for empirical analysis in our sample is shown in Appendix.  $MST_{j,t}$  represents the banking market structure in a country j in year t, measured and generated by four indicators as HHI, CR4, Lerner index and Panzar-Rosse H-statistics. Regarding control variables for bank characteristics as internal determinants of performance, bank's total assets, the cost to assets ratio, the ratio of equity to liability and the ratio of bank's loans divided by customers and short term funding, are used in our empirical model and defined detail in Table 2.

In addition, external factors as cross-country differences are utilized to examine the impact of macroeconomic environment on bank's performance (see Table 2).  $MacEcon_{j,t}^{Host}$  and  $MacEcon_{j,t}^{Home}$  denotes three macroeconomic variables, including growth rate of GDP per capita, inflation rate, and real interest rate in and between the host- and home- country.

Furthermore,  $GQuality_{j,t}^{Host}$  and  $GQuality_{j,t}^{Home}$  measure the quality of institution in the host- and home- country. We collect the data developed and ranked by Kaufmann et al. (2008). There are three indicators used separately for empirical model. The definition and explanation for these indicators are described as follows: 1) *Government Effectiveness* (GE), defined as the quality of public services, the quality of the civil service and the degree of its independence from political pressures, the quality of policy formulation and implementation, and the credibility of the government's commitment to such policies; 2) *Regulatory Quality* (RQ), defined as the ability of the government to formulate and implement sound policies and regulations that permit and promote private sector development; 3) *Control of Corruption* (CO), defined as the extent to which public power is exercised for private gain, including both petty and grand forms of corruption, as well as "capture" of the state by elites and private interests.

The country level variables also cover country risk and banking supervision. The country risk data collected from HIS Global Insight Inc., are ER which is the risk rating of economic risk and LR which is the risk rating of legal risk. Following Barth et al. (2004), we consider ten dimensions of banking regulation and supervision (SU), including SU1 (Can related parties own capital in a bank?), SU2 (Regulatory restrictiveness of ownership by one financial firms of banks), SU3 (What is the 5-bank concentration ratio?), SU4 (Is it risk-weighted in line with Basle guidelines?), SU5 (Activities of Securities), SU6 (Are auditors licensed or certified?), SU7 (Is auditor's report given to supervisory agency?), SU8 (Are consolidated accounts covering bank and any one-bank financial subsidiaries required?), SU9 (Does the law establish pre-determined levels of solvency deterioration which forces automatic actions such as intervention?), and SU10 (Frequency of onsite inspections conducted in large & medium size banks (1=1; 2=2). Based on Claessens and Horen (2009), we also consider foreign banks located in developing country, defined that dummy variable equals to one if foreign bank operated in a developing country and 0 otherwise.

## 4.2 Data

Different data sources are collected for empirical analysis on 70 countries over the period 1992 to 2006. This paper performs a panel data approach. The bank-level data on financial statement report is mainly collected from the database of *BankScope*, produced by *Bureau Van Dijk Corporation*. Macroeconomic variables in a country are obtained from *World Development Indicators* (WDI) and *World Bank* (WB). The information on supervision is taken from databases compiled by the World Bank and the Heritage Foundation. Cross-country differences in country condition and financial development are proxied as the risk rating of country risk collected from HIS *Global Insight Inc.* Specifically, country-level data on the quality of institution is collected from *Worldwide Governance Indicators* (WGI) developed and ranked by Kaufmann et al. (2008) for more than 50 countries, as free downloaded from the webpage at *http://www.govidicators.org*.

Using a nearly balanced panel of banks from 70 countries spanning the period 1992 to 2006, Table 4 reports some summary statistics of the variables used with regard to all banks, foreign banks, and domestic banks, namely. It is clear that foreign banks are more profitable than domestic banks based on the mean of measures as ROA of 0.848% to 0.797% and ROE of 9.954% to 8.994%, respectively. Compared with domestic banks, foreign banks exhibit lower ratio of operating cost (0.041), liquidity (42.217%), and logarithm of bank size (3.187), but also have higher ratio of interest payment (4.312), and total capital ratio (18.757%).

#### **5. Empirical Results**

To describe the correlation between bank ownership and performance, we

investigate whether banking market structure, developing economy, governance, and supervision for foreign banks between host country and home country play a partial or joint role in driving this relationship. We proceed as follows: we start by estimating a baseline model where we compare how both foreign ownership and banking competition affect bank performance to using NIM, ROE, and ROA, namely. Next, we test whether banking competition, governance, and supervision from host country and home country individually or jointly influence the association between foreign ownership and profitability by interacting foreign dummy with those institutional characteristics namely.

## 5.1 Indentifying Cross-Country Determinants of Bank Profitability

Modeling this static relationship, we apply Generalized Least Squares (GLS) method for panel data model with random-effects (RE) to estimate the equation (9), but initially consider basic control variables for bank characteristics. As shown in Table 5, our empirical results from the estimation indicate that foreign banks demonstrate significantly positive related to better profitability relative to domestic ones, suggesting foreign banks as a whole in comparison to domestic banks generate impressive profitability in average among 70 countries over 1992 to 2006.

It is worthily noted that differences in banking market structure across country play a significant role on their profitability. From the perspective of P-R H-statistics, Panel A in Table 5 presents that there is significantly negative relationship between bank NIM and the degree of competition in banking industry, implicating bank net interest margin is more likely to be squeezed when banking industry in a country trends to be competitive condition as a result of free market access to foreign or new banks. In contrary, the measure as HHI concentration indicates bank's interest margin is significantly positive related to monopolistic banking market structure, which is consistent with CR4 measure showing the similar results to the case of HHI. According to the result from NIM, banks with better profitability are significantly and negatively associated with their operating cost, but positively related to those using ROE as shown in Panel B. Our finding is in line with Maudos and Fernández de Guevara (2004) who used the NIM as dependent variable as well as Pasiouras and Kosmidou (2007) who used ROA as dependent variable. However, much profitable banks are positively and significantly associated with implicit payments in NIM model. This indicates that charging for bank's services more implicitly through lower remuneration of liabilities would lead to higher interest margins for banks, which is consistent with previous studies as Saunders and Schumacher (2000) and Maudos and Fernández de Guevara (2004). Liquidity robustly have significantly positive effect of NIM, ROA and ROE (in Panel C), indicating a positive relationship between liquidity and bank's profits. Furthermore, banks with better profitability are positively and significantly correlated to their opportunity cost, which is similar to Saunders and Schumacher (2000). This implicates that the opportunity costs of reserves stand for the average return on earning assets foregone by holding deposits in cash. As these increase the cost of funds beyond the observed rate, then banks gain the net interest margins by compensating this costs.

In addition, the relationship between bank profitability and off balance sheet is significantly negative in all estimation results from models; banks will decrease profit if it does more off balance activities. The relationship between size (SIZE) and bank's profitability is negative effect on the net interest margin. This result is consistent with the studies by Kosmidou et al. (2007) and Pasiouras and Kosmidou (2007). The negative coefficient indicates that in both cases, larger (smaller) banks tend to earn lower (higher) profits. This perspective also provides additional evidence to the studies that found either economies of scale and scope for smaller banks or diseconomies for larger financial institutions. Non-interest Revenues significantly negative from the results using all models and other operating inc. is significantly negative. It means that operation income from non-interest operating will decrease the income, and other operation Much profitable banks are positively and activities will decrease, too. significantly associated with the ratio of market share. More importantly, based on the result from NIM and ROA models, the relationship between bank profitability and capital ratio is significantly positive. But in ROE model, it become negative and significantly.

# 5.2 The Home-Country Impacts of Macroeconomic Condition, Governance, and Supervision on Bank Profitability

Controlling bank characteristics for bank's net interest margin (NIM), we next examine whether home-country institutional governance and macroeconomic condition for foreign banks have spillover impacts on their NIM, interacting foreign ownership with developing country, macroeconomic condition, home country risk, governance, and supervision, respectively. We report the estimated result in Table 6. First, foreign banks form developing economy show

 $\mathbf{24}$ 

lower NIM, even we find no evidence to support the fact foreign banks presenting higher NIM than domestic ones. Regarding the macroeconomic factors from home country for foreign banks, home country with higher inflation rate level would be more likely to lead to lower NIM for foreign banks, but we confirm the finding foreign banks ought to be more profitable than domestic ones as well. Though real interest rate and GDP at home country for foreign banks is not correlated with their NIMs, our results indicate the fact that foreign banks demonstrate higher NIM than domestic ones. Second, the level of legal and economic risk at home country for foreign banks have no substantial and significant effects on their NIMs, but it is noteworthy that foreign banks perform worse than domestic ones once controlling for such country risk. This implies that based on risk-adjusted perspective for foreign bank's profitability their home country risks would be potentially harmful for their ability to allocate multinational benefits. Finally, focusing the home-country effect of institutions for foreign banks, we find significantly negative correlation between NIM and the degree of control of corruption at home country for foreign banks, but yet supporting a positive and statistically significant fact that foreign banks exhibit better NIMs than domestic ones. We also indicate the similar results that the quality of regulation at home country for foreign banks has significantly negative influence on their NIMs, suggesting that foreign banks not necessarily show higher NIM than domestic ones in term of controlling home-country factors.

For the home-country effect of banking supervision on foreign bank's NIM, we find that foreign banks where home country presents stronger ownership restrictiveness, securities activities, licensed or certified auditor, and solvency intervention tend to enjoy higher NIM and perform better than domestic ones. This suggests that the better quality of financial regulation and supervision at home country impose to foreign banks operation, the more likely foreign banks is profitable than domestic ones. Surprisingly, we find that the interaction term among foreign ownership, bank capital, and onsite inspections at home country, have a significantly negative coefficient, suggesting that foreign banks where home country implements more restrictive control on bank capital and onsite examination on their banks damage foreign bank's NIM.

More important to our purpose, we next focus on investigating the home-country effects of banking market structure for foreign banks using various measures for empirical analysis. It is found that the home-country bank competition proxied as HHI and CR4 index according to bank assets has a significantly positive effect on foreign bank's NIM, indicating that foreign banks are more likely to exploit their NIM when banking market structure at home country tends to be monopolistic competition. However, it is not necessary for all cases when we use other measures for proxy as banking competition, evidenced by the significantly coefficient of the interaction term between foreign ownership and banking market structure among HHI (Loans), HHI (Deposits), CR4 (Loans), CR4 (Deposits), P-R *H*-Statistics, and Lerner Index.

For the control variables, we indicate that (i) operation cost has a negative and significant effect on NIM, (ii) bank size has a significantly negative effect on NIM, (ii) interest payment has a significantly positive impact on NIM, (iii) liquidity has a significantly positive effect on bank NIM, suggesting that keeping higher liquidity make better NIM for bank, and (iv) opportunity cost and other operating income have significantly positive effects on NIM, yet non-interest revenues and off-balance sheet activity have significantly negative influences on

#### NIM

## 5.3 The Host-Country Effects of Macroeconomic Condition, Governance, and Supervision on Bank Profitability

Table 7 reports our mixed results for interaction terms among foreign ownership, developing economy, macroeconomic environment, institutions, banking regulation and supervision at host country on bank NIM. Foreign-owned banks located in developing countries tend to be more profitable as predicted by skilled management, but less profitable compared with domestic banks. Even though GDP at host country have significantly negative effect on NIM, foreign banks show extremely profitable in comparison to domestic ones. In addition, host country with higher inflation level would largely increase bank NIM. In terms of host country risk, host country with higher level of legal and economic risk tends to enhance bank NIM, suggesting the positive relationship between risk and return. However, this risk factor causes the opposite finding that foreign bank are less profitable than domestic ones, which is similar to the result from controlling for home-country effects on bank NIM.

Moreover, we find similar results when we focus on institution at host country. NIM of foreign-owned banks located in countries with better control corruption, the quality of regulation, and government effectiveness, tends to be lower while foreign banks present better profitability than domestic ones in those cases. In contrast, we find much reasonable evidence from interaction terms between foreign ownership and banking supervision at host country. Foreign banks operating in a country with strong standard on Basel risk weights,

27

allowing securities activities, requiring licensed or certified auditor's report, and solvency intervention procedure are more likely to enjoy a larger profitability. Besides controlling interaction term with Basel risk weights and licensed or certified auditor's report, however, we find that foreign banks are more profitable than domestic ones.

Focusing on banking market structure at host country where foreign banks compete with domestic ones, we support the conditional evidence that foreign-owned banks largely demonstrate better profitability than domestic ones, even this is partially insignificant while using CR4 (Deposits) and P-R *H*-Statistics as the degree of banking competition at host country. More specifically, foreign banks operating at host country with monopolistic competition in banking industry would tend to be less profitable using CR4 (Assets), CR4 (Loans), and CR4 (Deposits) as the proxy with banking market structure. Interestingly, the case is significantly opposite using HHI (Loans) and Lerner Index, namely, suggesting that foreign-owned banks are highly likely to exploit more profits when operating at host country in which loan market is dominated by larger domestic banks.

## 5.4 Combining the Host- and Home-Country Effects of Macroeconomic Condition, Governance, and Supervision on Bank Profitability

We also check if there are the joint effects of macroeconomic condition, governance, and supervision on bank profitability combining host- and home-country interaction. Here we have no clear predictions on whether foreign banks are more profitable than domestic ones, particularly focusing on different measures for banking market structure. On the one hand, one may expect that foreign-owned banks should be more profitable than domestic-owned ones because bank profitability is positively correlated with the stronger and direct host-country impacts of macroeconomic condition, institution, and supervision. On the other hand, the opposite may be true if one thinks that even home-country effect of institution and banking regulation need to maintain some managerial advantage for foreign banks when compared with less skilled domestic banks.

dictators are more likely to be able to impose their will on the activity of state-owned banks. We find that the effect of elections on ROA is stronger in democracies (in fact, it is not statistically significant in dictatorships), but for margins we find no differences between democracies and dictatorships.

## 6. Conclusions

Identifying key factors influencing bank profitability is of importance to improve bank internal management and perform banking policies. However, previous literature pays much less attention on the substantial influence of banking market structure and the quality of institution across country on bank profitability, particular in domestic banks versus foreign banks. Hence, using both bank- and country-level data on banking sector from 70 countries for the period 1992 to 2006, this paper empirically identifies cross-country determinants of bank profitability in domestic versus foreign banks with respect to bank characteristics, macroeconomics environment, and the quality of institution across country. More specifically, this paper further investigated the influences of macroeconomic, country risk and bank government regulation and supervision between host and home country on foreign banks.

The empirical results reveal that foreign banks show better profitable than domestic banks based on the empirical evidence from 70 countries. In table 10, it is worthily noted that differences in banking market structure across country play a significant role on bank profitability. Banks operating in more comparative market show less profitable while the cross-country difference in macroeconomic condition also affect foreign bank's profits. From the perspective of P-R *H*-statistic, there is significant and negative relationship between bank profitability and the degree of competition in banking industry. This implicates that bank profitability would likely declined as banking industry in a country trend to a move competitive condition due to free market access.

Specifically, our finding indicates that banks profitability is partially and negatively related to institutional governance as *Control of Corruption*, *Regulatory Quality and Government Effectiveness* are more likely to affect bank's profitability in host country. And banks in developing country will more profitable than developed country. Nevertheless, it is interesting that the country risk have positive sign for bank profit and bank government regulation and supervision are in a very important role. And the combined model cannot show the identical result.

30

## References

- Al-Muharrami, S., Matthews, K., Khabari, Y., 2006. Market structure and competitive conditions in the Arab GCC banking system. *Journal of Banking and Finance* 30, 3487–3501.
- Angbazo, L., 1997. Commercial bank net interest margins, default risk, interest rate risk and off balance sheet financing. *Journal of Banking and Finance* 21, 55–88.
- Athanasoglou, P.P., Brissimis, S.N., Delis, M.D., 2008. Bank-specific, industry-specific and macroeconomic determinants of bank profitability. *Journal of International Markets, Institutions and Money* 18, 121–136.
- Berger, A.N., DeYoung, G., Gregory, F., Udell, 2000. Globalisation of financial institutions: Evidence from cross-border banking performance. Brookings-Wharton Papers on Financial Service 3, 23–120.
- Berger, A. N., Hasan, I., Zhou, M., 2009. Bank ownership and efficiency in China: What will happen in the world's largest nation? *Journal of Banking* and Finance 33, 113-130.
- Berger, Allen N., Klapper, Leora F., Rima, T.A., 2009. Bank competition and financial stability. *Journal of Finance Service Research* 35, 99–118.
- Bikker, J.A., Groeneveld, J.M., 2000. Competition and concentration in the EU banking industry. *Kredit und Kapital* 33, 62–98.
- Bikker, J.A., Haaf, K., 2002. Competition, concentration and their relationship: An empirical analysis of the banking industry. *Journal of Banking and Finance* 26, 2191–2214.
- Bikker, J.A., Haaf, K., 2002. Competition, concentration and their relationship: an empirical analysis of the banking industry. *Journal of Banking and Finance* 26, 2191–2214.

- Bikker, J.A., Spierdijk, L., Finnie, P., 2006. Misspecification of the Panzar-Rosse Model: Assessing Competition in the Banking Industry. DNB Working Paper 114.
- Bonin, J.P., Hasan, I., Wachtel, P., 2005. Bank performance, efficiency and ownership in transition countries. *Journal of Banking and Finance* 29, 31–53.
- 12. Brock, P.L., Suarez, L.R., 2000. Understanding the behavior of bank spreads in Latin America. *Journal of Development Economics* 63, 113–134.
- Carbó, S., Humphrey. D., Maudos, J., Molyneux, P., 2009. Cross-country comparisons of competition and pricing power in European banking. *Journal of International Money and Finance* 28 (1), 115–134.
- Claessens, S., Horen, N.V., 2009. Being a foreigner among domestic banks: Asset or liability? MPRA Paper 13467.
- Claessens, S., Laeven, L., 2004. What drives bank competition? Some international evidence. Journal of Money, Credit and Banking 36 (3), 563-583.
- Claessens, S., Demirgüç-Kunt, A., Huizinga, H., 2001. How does foreign entry affect domestic banking markets. *Journal of Banking and Finance* 25, 891–911.
- Claeys, S., Hainz, C., 2006. Acquisition versus Greenfield: The impact of the mode of foreign bank entry on information and bank lending rates. Governance and the Efficiency of Economic Systems Discussion Paper No. 95.
- Claeys, S., Vennet, R.V., 2008. Determinants of bank interest margins in Central and Eastern Europe: A comparison with the West. *Economic* Systems 32, 197–216.
- 19. Coccorese, P., 1998. Assessing the competitive conditions in the Italian

banking system: Some empirical evidence. *BNL Quarterly Review* 205, 171–191.

- Corvoisier, S., Gropp, R., 2002. Bank concentration and retail interest rates. Journal of Banking and Finance 26, 2155–2189.
- De Bandt, O., Davis, E.P., 2000. Competition, contestability and market structure in European banking sectors on the eve of EMU. *Journal of Banking and Finance* 24, 1045–1066.
- 22. Demirgüç-Kunt, A., Huizinga H., 2000. Financial structure and bank profitability. *World Bank Working Paper*.
- DeYoung, R., Daniel E.N., 1996. Foreign-owned banks in the U.S.: Earning market share or buying it? *Journal of Money, Credit, and Banking* 28, 622-636.
- 24. Dietrich, A., Wanzenried, G., 2009. What determines the profitability of commercial banks? New evidence from Switzerland. *Working Paper*.
- Dietz, M., Reibestein, R., Walter, C., 2008. What's in store for global banking. *The McKinney Quarterly* 1, 19-23.
- Engwall, L., Marquardt, R., Pedersen, T., Tschoegl, A., 2001. Foreign bank penetration of newly opened markets in the Nordic countries. *Journal of International Financial Markets, Institutions and Money* 11, 53–63.
- 27. Gelos, R. G., Roldos, J., 2002. Consolidation and market structure in emerging markets banking systems. *IMF Working Paper*.
- Goddard, J., Molyneux, P., Wilson, J. O. S., 2004. Dynamics of growth and profitability in banking. *Journal of Money, Credit and Banking* 36(6), 1069-1090.
- Grigorian, David, A., Manole, V., 2006. Determinants of commercial bank performance in transition: An application of Data Envelopment Analysis. *Comparative Economic Studies* 48, 497-522.

- Crystal, J.S., Dages, B.G., Goldberg, L.S., 2001. Does foreign ownership contribute to sounder banks? The Latin American experience. In Robert E. Litan, Paul Masson and Michael Pomerleano (eds.): Open Doors: Foreign Participation in Emerging Financial Systems, Brookings Press, 217-266.
- Hasan, I., Ana L.V., 1998. Foreign banks, production technology, and efficiency: Spanish experience. Georgia Productivity Workshop III, Athens, Georgia.
- 32. Hempell, H.S., 2002. Testing for competition among German Banks. Deutsche Bundesbank, Economic Research Centre Discussion Paper 04/02.
- Ho, T. S. Y., Saunders, A., 1998. The determinants of bank interest margins: Theory and empirical Evidence. *Journal of Financial and Quantitative Analysis* 16 (4), 581–600.
- Hondroyiannis, G., Lolos, S., Papetrou, E., 1999. Assessing competitive conditions in the Greek banking system. *Journal of International Financial Markets, Institutions and Money* 9, 377–391.
- Jaffee, A.B., 1989. Real effects of academic research. American Economic Review 79 (5), 957-70.
- Jonghe, O.D., Vennet, R.V., 2008. Competition versus efficiency: What drives franchise values in European banking? *Journal of Banking and Finance* 32, 1820–1835.
- Jorion, P., (2006), "Value at Risk: The new benchmark for managing financial risk," McGraw-Hill, 3<sup>rd</sup> Edition.
- Kaufmann, D., Kraay, A., Mastruzzi, M., 2006. Governance matters V: governance indicators for 1996–2005.
- Kosmidou, K., Pasiouras, F., Doumpos, M., Zopounidis, C., 2004. Foreign versus domestic banks' performance in the UK: a multicriteria approach. *Computational Management Science* 1 (3–4), 329–343.

- Kosmidou, K., Pasiouras, F., Tsaklanganos, A., 2007. Domestic and multinational determinants of foreign bank profits: The case of Greek banks operating abroad. *Journal of Multinational Financial Management* 17, 1-5.
- Lloyd-Williams, D.M., Molyneux, P., Thornton, J., 1991. Competition and contestability in the Japanese commercial banking market. Institute of European Finance, *Research Papers in Banking and Finance* No. 16.
- 42. Matthews, K., Murinde, V., Zhao, T., 2007. Competitive conditions among the major British banks. *Journal of Banking and Finance* 31, 2025–2042
- Maudos, J., Fernández de Guevara J., 2004. Factors explaining the interest margin in the banking sectors of the European Union. *Journal of Banking* and Finance 28, 2259–2281.
- Micco, Alejandro, Panizza, U., Yanez, M., 2007. Bank ownership and performance: Does politics matter? *Journal of Banking and Finance* 31, 219–241.
- Minh To, H., Tripe, D., 2002. Factors influencing the performance of foreign owned banks in New Zealand. *Journal of International Financial Markets, Institutions and Money* 12, 341–357.
- Mahajan, A., Rangan, N., Zardkoohi, A., 1996. Cost structures in multinational and domestic banking. *Journal of Banking and Finance* 20, 238-306.
- 47. Mian, A., 2003. Foreign, private domestic and government Banks: New evidence from emerging markets. Mimeo, University of Chicago.
- Molyneux, P., Lloyd-Williams, D.M., Thornton, J., 1994. Competitive conditions in European banking. *Journal of Banking and Finance* 18, 445–459.
- 49. Molyneux, P., Thornton, J., Lloyd-Williams, D.M., 1996. Competition and

market contestability in Japanese commercial banking. Journal of Economics and Business 48, 33-45.

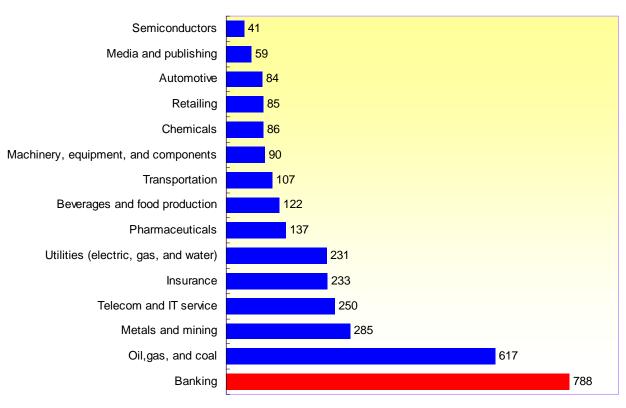
- 50. Molyneux, P., Thorton, J., 1992. Determinants of European bank profitability: A note. *Journal of Banking and Finance* 16(6), 1173–1178.
- Murjan, W., & Ruza, C., 2002. The competitive nature of the Arab Middle Eastern banking markets. *International Advances in Economics*, 267–275.
- Nathan, A., Neave, E.H., 1989. Competition and contestability in Canada s financial system: empirical results. *Canadian Journal of Economics* 22, 576–594.
- Nikiel, E.M., Opiela, T.P., 2002. Customer type and bank efficiency in Poland: Implication for emerging market banking, *Contemporary Economic Policy* 20, 255-271.
- 54. Panzar, J.C., Rosse J.N., 1987. Testing for "monopoly" equilibrium. *Journal* of *Industrial Economics* 35, 443–456.
- 55. Park, K.H., 2009. Has bank consolidation in Korea lessened competition? Quarterly Review of Economics and Finance 49(2), 651–667.
- Pasiouras, F., Kosmidou, K., 2007. Factors influencing the profitability of domestic and commercial banks in the European Union. *Journal of Banking* and Finance 21, 222–237.
- Peek, J., Rosengren, E.S., Kasirye, F., 1999. The poor performance of foreign bank subsidiaries: were the problems acquired or created? *Journal of Banking and Finance* 23, 579–604.
- Peria, Maria S. M., Mody, A., 2004. How foreign participation and market concentration impact bank spreads: evidence from Latin America. *Journal* of Money Credit and Banking 36 (3), 511–537.
- 59. Rime, B., 1999. Mesure du degré de concurrence dans le système bancaire suisse à l'aide du modèle de Panzar et Rosse. *Swiss Journal of Economics*

and Statistics 135 (I), 21–40.

- 60. Sathye, M., 2001. X-efficiency in Australian banking: An empirical investigation. *Journal of Banking and Finance* 25, 613–630.
- Saunders, A., Schumacher, L., 2000. The Determinants of bank interest rate margins: An international study. *Journal of International Money and Finance* 19, 813–832.
- Shaffer, S., 1982. A non-structural test for competition in financial markets. In: Proceedings of a Conference on Bank Structure and Competition. Federal Reserve Bank of Chicago, 225–243.
- Shaffer, S., DiSalvo, J., 1994. Conduct in banking duopoly. Journal of Banking and Finance 18, 1063–1082.
- 64. Spathis, C., Kosmidoua K., Doumposa M., 2002. Assessing profitability factors in the Greek banking system: A multicriteria methodology. *International Transactions in Operational Research* 9, 517-530.
- 65. Staikouras, C., Wood, G., 2003. The determinants of bank profitability in Europe. Paper presented at the *Proceedings of the European Applied Business Research Conference*, Venice, Italy June 9–13.
- Sturm, J.E. Williams, B., 2004. Foreign bank entry, deregulation and bank efficiency: Lessons from the Australian Experience. *Journal of Banking and Finance* 28, 1775–1799.
- Thorne, A., 1993. Eastern Europe's experience with banking reform: is there
  a role for banks in the transition? *Journal of Banking and Finance* 17,
  959–1000.
- 68. Tsutsui, Y., Kamesaka, A., 2005. Degree of competition in the Japanese securities industry. *Journal of Economics and Business* 57, 360–374.
- 69. Turk-Ariss, R., 2009. Competitive behavior in Middle East and North Africa banking systems. *Quarterly Review of Economics and Finance* 49(2),

693 - 710.

- Ursacki, T., Vertinsky, I., 1992. Choice of entry timing and scale by foreign banks in Japan and Korea. *Journal of Banking and Finance* 16, 405–421.
- Vennet, V., Rudi, 1996. The effect of mergers and acquisitions on the efficiency and profitability of EC credit institutions. *Journal of Banking and Finance* 20, 1531–58.
- 72. Vesala, J., 1995. Testing for competition in banking: behavioural evidence from Finland. *Bank of Finland Studies*, E: 1.
- Williams, B., 1996. Determinants of the performance of Japanese financial institutions in Australia 1987–1992. *Applied Economics* 28, 1153–1165.
- Williams, B., 1998a. Factors affecting the performance of foreign-owned banks in Australia: a cross-sectional study. *Journal of Banking and Finance* 22, 197–219.
- Williams, B., 1998b. A pooled study of the profits and size of foreign banks in Australia. *Journal of Multinational Financial Management* 8, 211–231.
- Williams, B., 2003. Domestic and international determinants of bank profits: foreign banks in Australia. *Journal of Banking and Finance* 27, 1185–1210.
- 77. Yildirim, H.S., Philippatos, G. C., 2007. Restructuring, consolidation and competition in Latin American banking markets. *Journal of Banking and Finance* 31, 629–639.
- Yuan, Y., 2006. The state of competition of the Chinese banking industry. Journal of Asian Economics 17, 519–534.



After-tax profits, 2006, \$billion

Figure 1 The Profit Leader in Global Sector in 2006 (Source: The McKinsey Quarterly, January 2008)

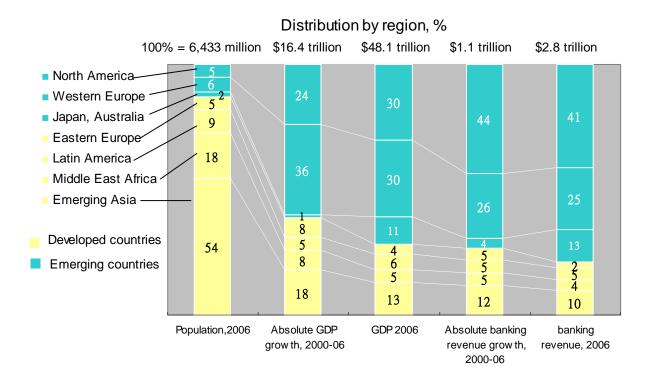


Figure 2 The Profit Pattern with Respect to Different Regions around the World (Source: The McKinsey Quarterly, January 2008)

Authors (Published Year)	Period	Countries	Empirical Findings
Shaffer (1982)	1979	New York	Monopolistic competition
Nathan and Neave (1989)	1982–1984	Canada	1982: perfect competition; 1983–84: monopolistic competition
Lloyd-Williams et al. (1991)	1986 - 1988	Japan	Monopoly
Molyneux et al. (1994)	1986–1989	France, Germany, Italy, Spain, UK	Monopoly: Italy; monopolistic competition: France, Germany, Spain, UK
Shaffer and Disalvo (1994)	1970 - 1986	Pennsylvania (USA)	Duopoly but high degree of competitiveness.
Vesala (1995)	1985 - 1992	Finland	Monopolistic competition for all but two years
Molyneux et al. (1996)	1986 - 1988	Japan	Monopoly
Coccorese (1998)	1988 - 1996	Italy	Monopolistic competition
Niimi (1998)	1989–1991,	Japan	1989–1991 is monopoly.
	1994 - 1996		1994–1996 is monopolistic competition.
Rime (1999)	1987 - 1994	Switzerland	Monopolistic competition
Hondroyiannis et al. (1999)	1993 - 1995	Greece	Monopolistic competition
Bikker and Groeneveld (2000)	1989–1996	15 EU countries	Monopolistic competition
De Bandt and Davis (2000)	1992–1996	France, Germany, Italy	Large banks: monopolistic competition in all countries; small banks: monopolistic competition in Italy, monopoly in France, Germany
Bikker and Haaf (2002)	1988–1998	23 OECD countries	Monopolistic competition
Murjan and Ruza (2002)	1993–1997	Arab Middle East	Monopolistic competition. Oil-producing countries are less Competitive than non-oil
Gelos and Roldos (2002)	1994–2000	European and Latin American countries (eight countries)	Argentina and Hungary are near perfect competition. Others are monopolistic competition.
Hempell (2002)	1993–1998	Germany	Monopolistic competition
Coccorese (2004)	1997 - 1999	Italy	Monopolistic competition
Claessens and Laeven (2004)	1994–2001	50 countries	The competition of Brazil, Greece, and Mexico are high, but the degree of USA, Japan, Norway and Turkey are lower.
Mamatzakis et al. (2005)	1998–2002	South Eastern European	Monopolistic competition
Tsutsui and Kamesaka (2005)	1983 - 2002	Japan	1983–1988, 1997–2002 is monopoly equilibrium
Yuan (2006)	1996–2000	China	perfect competition
Al-Muharrami et al. (2006)	1993–2002	Arab Gulf Cooperation Council's (GCC) banking industry	Kuwait, Saudi Arabia and the UAE operate under perfect competition : Bahrain and Qatar operate under conditions of monopolistic competition
Matthews et al. (2007)	1980 - 2004	British	Monopolistic competition.
Yildirim and Philippatos (2007)	1993–2000	Latin American	monopolistic competition
Rima (2008)	2000–2006	Middle East and North Africa	Monopolistic competition
Park (2008)	1992–2004	Korean commercial banking	Pre-crisis period and the post-crisis period: monopolistically Competitive ; crisis period:
Bikker et al. (2008)	1995–2004	76 countries	perfect competition 80% are in monopoly equilibrium.

Table 1Empirical Studies Using Panzar-Rosse Model

# Table 2

**Empirical results from other studies** The letter after year means the dependent variable. (N=NIM, A=ROA and E=ROE )

Explanatory variable	Positive relation with	Negative relation with	No relation with
Default risk	Angbazo (1997) <sup>N</sup> Claeys and Vennet (2008) <sup>N</sup> Maudos and Fernández de Guevara (2004) <sup>N</sup>	Athanasoglou et al. (2008) <sup>A</sup>	Dietrich and Wanzenried (2009) <sup>A</sup>
Interest rate risk	Claessens et al. (2001) <sup>N</sup> Claeys and Vennet (2008) <sup>N</sup> Maudos and Fernández de Guevara (2004) <sup>N</sup>	Angbazo (1997) <sup>N</sup>	
Liquidity risk	Pasiouras and Kosmidou (2007) <sup>A</sup>	Angbazo (1997) <sup>N</sup>	Kosmidou et al. (2007) <sup>A</sup>
Capital adequacy	Angbazo (1997) <sup>N</sup> Athanasoglou et al. (2008) <sup>A</sup> , Claeys and Vennet (2008) <sup>N</sup> Pasiouras and Kosmidou (2007) <sup>A</sup> Saunders and Schumacher (2000) <sup>N</sup> Dietrich and Wanzenried (2009) <sup>A</sup>		Claessens et al. (2001) <sup>N</sup> Kosmidou et al. (2007) <sup>A</sup> Williams (2003) <sup>A</sup>
Implicit interest payments	Maudos and Fernández de Guevara (2004) <sup>N</sup> Saunders and Schumacher (2000) <sup>N</sup>		Angbazo (1997) <sup>N</sup>
Opportunity cost of non-interest bearing reserves	Angbazo (1997) <sup>N</sup>		
Opportunity cost of reserves	Saunders and Schumacher (2000) <sup>N</sup>		Maudos and Fernández de Guevara (2004) <sup>N</sup>
Management quality	Angbazo (1997) <sup>N</sup>	Maudos and Fernández de Guevara (2004) <sup>N</sup>	
Differences in barriers to statewide branching			Angbazo (1997) <sup>N</sup>
Productivity growth	Athanasoglou et al. (2008) <sup>A</sup> Claessens et al. (2001) <sup>N</sup>		
Operating expenses management		Athanasoglou et al. (2008) <sup>A</sup>	Williams (2003) <sup>A</sup>
Size	Bonin et al. (2005a) <sup>A</sup>	Kosmidou et al. (2007) <sup>A</sup> Pasiouras and Kosmidou (2007) <sup>A</sup>	Athanasoglou et al. (2008) <sup>A</sup> Maudos and Fernández de Guevara (2004) <sup>N</sup>
Size <sup>2</sup>			Athanasoglou et al. (2008) <sup>A</sup> Dietrich and Wanzenried (2009) <sup>A</sup>
Ownership			(2003) <sup>A</sup> Athanasoglou et al. (2008) <sup>A</sup>
Concentration	Claeys and Vennet (2008) <sup>N</sup> Pasiouras and Kosmidou (2007) <sup>A</sup>		Athanasoglou et al. (2008) <sup>A</sup>
Cyclical output	Athanasoglou et al. (2008) <sup>A</sup>		
Foreign strategic			Bonin et al. (2005a) <sup>A</sup>
Government-owned			Bonin et al. (2005a) <sup>A</sup>
International participation			Bonin et al. (2005a) <sup>A</sup>
Foreign bank share			Claessens et al. (2001) <sup>N</sup>

#### Table 2 (Continued)

Explanatory variable	Positive relation with	Negative relation with	No relation with
Inflation expectations	Athanasoglou et al. $(2008)^A$ , Claessens et al. $(2001)^N$		
	Claeys and Vennet (2008) <sup>N</sup>		
Overhead/ta	Pasiouras and Kosmidou (2007) <sup>A</sup> Claessens et al. (2001) <sup>N</sup>		
Per capital income		Claessens et al. (2001) <sup>N</sup>	
Market share			Claeys and Vennet (2008) <sup>N</sup>
X-efficiency	Claeys and Vennet (2008) <sup>N</sup>		Williams (2003) <sup>A</sup>
S-efficiency	Chacy's and Vennet (2000)		Claeys and Vennet (2008) <sup>N</sup>
Dem. and sav. deposits	Claeys and Vennet (2008) <sup>N</sup>		
GDP growth	Claeys and Vennet (2008) <sup>N</sup> Pasiouras and Kosmidou (2007) <sup>A</sup>		
Exports		Williams (1998b) <sup>A</sup>	Kosmidou et al. (2007) <sup>A</sup>
GDP growth rates difference			Kosmidou et al. (2007) <sup>A</sup>
Parent's banks ROA	Kosmidou et al. (2007) <sup>A</sup>		Kosmidou et al. (2007) <sup>A</sup>
Parent's banks SIZE	Williams (1998b) <sup>A</sup>	Kosmidou et al. (2007) <sup>A</sup>	Williams (2003) <sup>A</sup>
Experience in the host nation	Kosmidou et al. (2007) <sup>A</sup>		Williams (1998b) <sup>A</sup> Williams (2003) <sup>A</sup>
Stock market capitalization/total assets			Kosmidou et al. (2007) <sup>A</sup>
Time			Kosmidou et al. (2007) <sup>A</sup>
Cost	Maudos and Fernández de Guevara (2004) <sup>N</sup>	Pasiouras and Kosmidou (2007) <sup>A</sup> Dietrich and Wanzenried (2009) <sup>A</sup>	Kosmidou et al. (2007) <sup>A</sup>
C5		<u> </u>	Kosmidou et al. (2007) <sup>A</sup>
Loan loss provisions	Maudos and Fernández de Guevara (2004) <sup>N</sup>		Kosmidou et al. (2007) <sup>A</sup>
Lerner index	Maudos and Fernández de Guevara (2004) <sup>N</sup>		
Capital flow			Williams (1998b) <sup>A</sup> Williams (2003) <sup>A</sup>
Home GDP			Williams (1998b) <sup>A</sup>
Home NIM			Williams (1998b)A Williams (2003)A
Licence	Williams (1998b) <sup>A</sup>	Williams (2003) <sup>A</sup>	
Home GDP growth	Williams (2003) <sup>A</sup>		
Asset growth			Williams (2003) <sup>A</sup>
Yearly growth of deposits			Dietrich and Wanzenried (2009) <sup>A</sup>
Diff.btw bank and market growth of total loans	Dietrich and Wanzenried (2009) <sup>A</sup>		
Large bank : Total assets>10 bio. USD		Dietrich and Wanzenried (2009) <sup>A</sup>	
Small bank : Total assets<500 mio. USD	Dietrich and Wanzenried (2009) <sup>A</sup>		
Interest income share		Dietrich and Wanzenried	
		(2009) <sup>A</sup>	

Variables	Description	Notation	Expecte d sign
Dependent variables			
Net Interest Margin	(Net interest revenue)/total assets	NIM	
Return on Assets	(Net profits before taxes)/total assets	ROA	
Return on Equity	(Net profits before taxes)/total equities	ROE	
Independent variables			
Bank-Specific			
Foreign Banks	Dummy variable equals to one for foreign banks and 0 for domestic banks.	$\mathbf{FB}$	+
Capital Strength	Calculated as equity/liability	$\mathbf{EL}$	+
Bank Size	The natural logarithm of the accounting value of the total assets	SIZE	+/
Operation Cost	COST is total operation expenses provides information on the efficiency of the management.	COST	+/
Liquidity	A measure of liquidity, calculated as loans divided by customers and short term funding	LI	+
<b>Opportunity</b> Cost	This variable is proxied by the ratio of liquid reserves/total assets	OPC	+
Interest Payments	Ratio of operating expenses minus noninterest income to total assets reflect extra payments to depositors through service charge remission or other types of transfers due to competition in the market for deposits	IIP	+
Credit Risk	The credit risk is calculated as loan-loss provisions to loans ratio	$\mathbf{CR}$	+
Non-interest Revenues	This variable is proxied by non-interest revenues/Total Revenue.	NOI	+
Off balance sheet	This variable is calculated as Off balance sheet/total assets.	OBS	?
Market share	It is a ratio of its assets relative to the total assets of the banking market	MS	?
Other Operating Inc.	Other Operating Income/total assets	IOO	?
Industry-Specific			
PR H-statistics	Estimates competitive behavior of banks on the basis of the comparative static properties of reduced-form revenue equations A country-level indicator of bank competition, measured by the	PR H	
Lerner Index	Lerner index, which is calculated as the average bank-level measure of the mark-up of price over marginal costs, with higher values	LER	+
HHI Assets	indicating less competition in the banking sector. The Herfindahl index measures market concentration and equals the sum of the squares of each bank's market share in total industry assets	HHIA	+
HHI Loan	The Herfindahl index measures market concentration and equals the sum of the squares of each bank's market share in total industry	HHIA	?
HHI Deposit	loans. The Herfindahl index measures market concentration and equals the sum of the squares of each bank's market share in total industry	HHIA	?
CR4 Assets	deposits. The CR4 concentration measure calculated by dividing the assets of the five largest banks with the assets of all banks operating in the	CR4A	+
CR4 Loan	market The CR4 concentration measure calculated by dividing the loans of the five largest banks with the loans of all banks operating in the market	CR4L	?

Table 3Variables Description and Expected Sign

Variables	Description	Notation	Hypo hesis
CR4 Deposit	The CR4 concentration measure calculated by dividing the deposits of the five largest banks with the deposits of all banks operating in the market	CR4D	
Macroeconomic Environment			
GDP Growth	Growth in nation GDP	GDP	+/
Inflation Rate	Current period inflation rate (consumer prices)	INF	+/
Real Interest Rate	Real interest rate	IR	+/
Developing countries	Dummy variable equals to 1 if a bank locates in developing country.	DC	?
Country Risk			
Legal risk	It is the risk rating of legal risk	LR	?
Economic risk	It is the risk rating of economic risk	$\mathbf{ER}$	?
Quality of Institution			
Government Effectiveness	Defined as the quality of public services	GE	+
Regulatory Quality	Defined as the ability of the government to formulate and implement sound policies and regulations that permit and	RQ	+
Control of Corruption	promote private sector development Defined as the extent to which public power is exercised for private gain, including both petty and grand forms of corruption.	CC	+
Bank Regulation and Supervis			
Capital	Dummy variable that equals to 1 if related parties can own capital in a bank.	CAP	+
Ownership Restrictiveness	Dummy variable that equals to 1 if regulatory restrictiveness of ownership by one financial firms of banks.	OWN	+
Basel Risk Weights	Dummy variable that equals to1 if it is risk-weighted in line with Basle guidelines.	BASEL	+
Securities Activities	What are the conditions under which banks can engage in securities activities?	SEC	+
Licensed/Certified Auditor	Dummy variable that equals to 1 if auditors licensed or certified	AUDLIC	+
Auditor's Report	Dummy variable that equals to 1 if auditor's report given to supervisory agency	AUDREP	+
Consolidated Accounts	Dummy variable that equals to 1 if consolidated accounts covering bank and any one-bank financial subsidiaries required	CACCS	+
Solvency Intervention	Dummy variable that equals to 1 if the law establish pre-determined levels of solvency deterioration which forces automatic actions such as intervention.	SOLACT	+
Onsite Inspections	Frequency of onsite inspections conducted in large & medium size banks.	ONINS	+

# Table 3 (Continued)

		All Banks	3	Dor	Domestic Banks			Foreign Banks		
Variables	N	Mean	Std. Dev.	N	Mean	Std. Dev.	N	Mean	Std. Dev.	
Dependent Variable										
Net Interest Margin (NIM)	61,720	3.645	3.696	53,833	3.680	3.478	7,887	3.407	4.928	
Return on Assets (ROA)	62,217	0.804	3.115	54,163	0.797	3.063	8,054	0.848	3.446	
Return on Equity (ROE)	62,181	9.118	27.507	54,133	8.994	25.765	8,048	9.954	37.149	
Independent Variables										
Bank Characteristics										
Operation Cost	62,098	0.038	0.059	54,070	0.038	0.059	8,028	0.041	0.062	
Interest Payments	61,669	4.003	5.349	53,786	3.957	5.226	7,883	4.312	6.119	
Liquidity Ratio	62,146	52.198	23.723	54,094	53.684	23.067	8,052	42.217	25.584	
Opportunity Cost	61,862	0.029	0.043	53,901	0.029	0.040	7,961	0.032	0.058	
Credit Risk	62,605	0.002	0.046	54,447	0.002	0.041	8,158	0.005	0.070	
Log(Bank Size)	62,546	3.164	0.975	54,413	3.161	0.954	8,133	3.187	1.108	
Non-Interest Revenues	61,731	0.628	0.407	53,836	0.615	0.424	7,895	0.715	0.245	
Capital Strength	62,362	12.853	35.641	54,270	11.972	32.666	8,092	18.757	50.927	
Off Balance Sheet	60,451	0.264	4.862	52,796	0.251	5.175	7,655	0.349	1.408	
Market Shares	55,584	0.013	0.043	48,066	0.012	0.040	7,518	0.025	0.060	
Other Operating Income	61,668	1.796	5.323	53,780	1.707	5.227	7,888	2.405	5.900	
Banking Market Structure										
P-R H-statistics	60,832	0.915	31.287	53,170	0.603	19.324	7,662	3.077	71.942	
Lerner Index	49,590	0.140	1.467	44,452	0.152	1.271	5,138	0.034	2.606	
HHI (Assets)	55,668	0.064	0.065	48,150	0.060	0.060	7,518	0.101	0.074	
HHI (Loans)	55,668	0.600	0.0566	48,150	0.054	0.053	7,518	0.094	0.038	
HHI (Deposits)	55,668	0.0653	0.063	48,150	0.060	0.060	7,518	0.1001	0.074	
CR4 (Assets)	55,668	0.0005	0.016	48,150	0.0003	0.012	7,518	0.001	0.028	
CR4 (Loans)	45,108	0.0007	0.017	38,322	0.0004	0.015	6,786	0.002	0.025	
CR4 (Deposits)	24,371	0.001	0.228	20,567	0.0009	0.019	3,804	0.003	0.038	
Macroeconomic Condition										
Growth Rate of GDP	62,739	2.559	2.346	54,659	2.471	2.218	8,080	3.151	3.005	
Inflation Rate	62,585	7.470	81.726	54,538	6.911	79.397	8,047	11.260	95.953	
Real Interest Rate	55,611	6.816	7.380	48,437	6.768	6.859	7,174	7.136	10.219	

Table 4Summary Statistics by Bank Ownership

#### Table 5

#### Cross-Country Determinants of Bank Profitability form Random-Effects Panel Data Model

Numbers in parenthesis are *t*-values. \*, \*\*, \*\*\* denote statistically significant at level of 10%, 5%, and 1%, respectively.

	Panel	A. Depend	lent Varia	ble: Net I	nterest Ma	rgin (NIM)	)	
Independent	Panzar-Rosse	Lerner	Hirschn	nan–Herfinda	hl Index	Concentra	tion Ratio on 7	Гор 4 Banks
Variables	H-Statistics	Index	Assets	Loans	Deposits	Assets	Loans	Deposits
Constant	7.541***	6.374***	7.794***	7.514***	7.751***	7.794***	7.787***	11.078***
	(81.34)	(60.90)	(78.73)	(74.96)	(77.15)	(78.73)	(71.38)	(55.67)
Foreign Bank	0.188***	0.199**	0.253***	0.122	0.234***	0.253***	0.213***	0.110
	(2.655)	(2.151)	(3.402)	(1.636)	(3.139)	(3.402)	(2.827)	(0.769)
Degree of	-0.009***	-0.015***	-0.002***	4.419***	0.609**	-0.002***	-2.685***	-4.549***
Market Power	(-3.602)	(-2.788)	(-9.996)	(14.55)	(2.135)	(-9.990)	(-3.526)	(-4.538)
Operation Cost	-3.876***	-1.465***	-3.039***	-2.913***	-3.034***	-3.039***	-4.285***	-2.918***
	(-12.21)	(-4.885)	(-8.785)	(-8.416)	(-8.755)	(-8.785)	(-8.878)	(-6.212)
Bank Size	-0.530***	-0.410***	-0.556***	-0.519***	$-0.545^{***}$	-0.556***	-0.526***	-1.054***
	(-24.58)	(-16.87)	(-24.17)	(-22.67)	(-23.71)	(-24.17)	(-20.68)	(-21.83)
Market Shares	4.246***	3.544***	5.346***	2.585***	5.013***	5.346***	6.341***	7.470***
	(9.307)	(4.907)	(12.53)	(5.536)	(10.88)	(12.53)	(12.74)	(10.22)
Credit Risk	1.161**	1.487**	1.076*	1.163**	1.044*	1.076*	0.935*	0.443
	(2.260)	(2.327)	(1.954)	(2.131)	(1.903)	(1.954)	(1.694)	(0.591)
Interest	0.236***	0.217***	0.233***	0.233***	0.234***	0.233***	0.256***	0.239***
Payments	(49.76)	(42.94)	(47.10)	(47.06)	(47.16)	(47.10)	(41.22)	(32.79)
Liquidity	0.004***	0.005***	0.002***	0.002***	0.002***	0.002***	0.001	0.005***
	(6.293)	(6.687)	(2.760)	(3.186)	(2.774)	(2.761)	(1.525)	(3.960)
Opportunity	9.144***	7.568***	9.017***	8.897***	9.039***	9.017***	10.179***	8.587***
Cost	(28.19)	(18.32)	(26.78)	(26.45)	(26.80)	(26.78)	(26.73)	(16.19)
Capital	0.002***	0.001***	0.002***	0.002***	0.002***	0.002***	0.003***	0.003***
Strength	(5.156)	(3.141)	(5.265)	(4.920)	(5.229)	(5.265)	(6.954)	(4.014)
Non-Interest	-5.298***	-4.101***	-5.346***	-5.419***	-5.387***	-5.346***	-5.541***	-7.689***
Revenues	(-87.77)	(-63.11)	(-82.62)	(-83.87)	(-83.21)	(-82.62)	(-75.68)	(-64.88)
Off Balance	-0.026***	-0.016***	-0.017***	-0.016***	-0.017***	-0.017***	0.025***	-0.018***
Sheet	(-13.47)	(-8.674)	(-8.511)	(-7.812)	(-8.470)	(-8.511)	(2.904)	(-6.295)
Other Operating	-0.136***	-0.169***	-0.162***	-0.165***	-0.162***	-0.162***	-0.169***	-0.169***
Income	(-37.72)	(-41.28)	(-43.10)	(-44.08)	(-43.14)	(-43.10)	(-38.22)	(-28.42)
Observations	51,005	41,714	52,024	52,024	52,024	52,024	41,715	21,808
Number of Banks	4,778	3,918	4,843	4,843	4,843	4,843	4,839	2,123
$R^2$	0.357	0.325	0.339	0.345	0.340	0.339	0.355	0.326
$\chi^2$	14,208	8,632	13,370	13,575	13,290	13,370	11,346	6,910

	Panel E	B. Depend	ent Varia	ble: Retu	rn on Asse	t (ROA)		
Independent	Panzar-Rosse	Lerner	Hirschm	an–Herfind	ahl Index	Concentra	tion Ratio on	Top 4 Banks
Variables	H-Statistics	Index	Assets	Loans	Deposits	Assets	Loans	Deposits
Constant	5.173***	4.160***	5.274***	5.079***	5.231***	5.274***	5.293***	7.602***
	(71.71)	(50.38)	(70.75)	(67.19)	(69.08)	(70.75)	(65.31)	(51.77)
Foreign Bank	0.130***	0.100	0.177***	0.088*	0.158***	0.177***	$0.159^{***}$	0.107
	(2.593)	(1.431)	(3.450)	(1.723)	(3.087)	(3.450)	(3.081)	(1.131)
Degree of Market	-0.021***	0.010**	-0.002***	3.005***	0.599***	-0.002***	-2.351***	-3.868***
Power	(-9.624)	(2.298)	(-11.620)	(12.520)	(2.707)	(-11.620)	(-3.767)	(-4.854)
Operation Cost	-1.029***	-0.746***	-1.222***	-1.125***	-1.216***	-1.222***	-3.182***	-1.392***
	(-3.764)	(-3.025)	(-4.272)	(-3.929)	(-4.244)	(-4.272)	(-8.099)	(-3.672)
Bank Size	-0.326***	-0.268***	-0.337***	-0.309***	-0.327***	-0.337***	-0.315***	-0.673***
	(-20.190)	(-14.140)	(-20.180)	(-18.570)	(-19.590)	(-20.180)	(-17.380)	(-19.320)
Market Shares	3.550***	2.400***	4.058***	2.218***	3.723***	4.058***	4.746***	5.662***
	(9.935)	(4.162)	(12.41)	(6.191)	(10.55)	(12.41)	(12.78)	(10.50)
Credit Risk	1.273***	1.373***	1.205***	1.265***	1.174***	1.205***	1.119***	0.812
	(3.481)	(2.815)	(3.148)	(3.341)	(3.083)	(3.148)	(2.925)	(1.628)
Interest Payments	-0.665***	-0.616***	-0.645***	-0.645***	-0.644***	-0.645***	-0.631***	-0.656***
	(-163.9)	(-147.8)	(-158.4)	(-158.2)	(-157.9)	(-158.4)	(-124.7)	(-111.5)
Liquidity	0.004***	0.005***	0.003***	0.004***	0.003***	0.003***	0.004***	0.006***
	(8.530)	(8.239)	(6.403)	(6.902)	(6.445)	(6.403)	(6.204)	(7.392)
Opportunity Cost	1.583***	0.498	1.483***	1.411***	1.504***	1.483***	1.969***	1.154***
	(5.840)	(1.469)	(5.468)	(5.206)	(5.539)	(5.467)	(6.505)	(2.754)
Capital Strength	0.004***	0.005***	0.005***	0.005***	0.005***	0.005***	0.006***	0.005***
	(14.55)	(14.22)	(14.64)	(14.33)	(14.57)	(14.64)	(14.94)	(7.853)
Non-Interest	-3.664***	-2.575***	-3.744***	-3.812***	-3.784***	-3.744***	-3.922***	-5.583***
Revenues	(-71.73)	(-48.22)	(-71.07)	(-72.41)	(-71.76)	(-71.08)	(-66.49)	(-59.12)
Off balance Sheet	-0.017***	-0.015***	-0.017***	-0.016***	-0.017***	-0.017***	-0.008	-0.021***
	(-10.28)	(-10.07)	(-10.03)	(-9.462)	(-9.990)	(-10.03)	(-1.136)	(-9.082)
Other Operating	0.706***	0.649***	0.689***	0.686***	0.688***	0.689***	0.701***	0.707***
Income	(229.1)	(192.4)	(223.4)	(222.1)	(222.6)	(223.4)	(195.3)	(147.8)
Observations	51,037	41,746	52,056	52,056	52,056	52,056	41,739	21,830
Number of Banks	4,782	3,922	4,847	4,847	4,847	4,847	4,843	2,125
$R^2$	0.456	0.359	0.438	0.442	0.438	0.438	0.434	0.458
$\mathcal{X}^2$	65,541	42,144	59,855	59,689	59,441	59,855	46,794	27,392

#### Table 5 (Continued)

Numbers in parenthesis are *t*-values. \*, \*\*, \*\*\* denote statistically significant at level of 10%, 5%, and 1%, respectively.

#### Table 5 (Continued)

Numbers in parenthesis are *t*-values. \*, \*\*, \*\*\* denote statistically significant at level of 10%, 5%, and 1%, respectively.

	Pane	l C. Deper	ndent Vari	able: Retu	rn on Equi	ty (ROE)		
Independent	Panzar-Rosse	Lerner	Hirschm	an–Herfinda	ahl Index	Concentrat	ion Ratio on T	op 4 Banks
Variables	H-Statistics	Index	Assets	Loans	Deposits	Assets	Loans	Deposits
Constant	12.519 * * *	5.158***	14.217***	12.233***	13.475 ***	14.217***	13.784***	20.353***
	(13.810)	(5.2540)	(15.520)	(13.100)	(14.460)	(15.520)	(14.460)	(12.420)
Foreign Bank	1.260***	1.233*	1.749***	0.808	1.384***	1.749***	2.034***	1.686**
	(2.594)	(1.865)	(3.549)	(1.619)	(2.778)	(3.549)	(4.227)	(2.245)
Degree of Market	-0.360***	0.407***	-0.020***	33.799***	12.816***	-0.022***	20.078*	-4.062
Power	(-8.153)	(6.008)	(-7.764)	(10.70)	(4.665)	(-7.764)	(1.951)	(-0.294)
Operation Cost	-6.975	13.438***	-3.384	-1.491	-2.994	-3.384	-8.962	1.586
	(-1.469)	(3.568)	(-0.713)	(-0.314)	(-0.631)	(-0.713)	(-1.436)	(0.237)
Bank Size	0.339*	$0.522^{**}$	0.040	0.373**	0.198	0.040	-0.198	-1.784***
	(1.941)	(2.571)	(0.224)	(2.071)	(1.101)	(0.225)	(-1.075)	(-5.389)
Market shares	33.433***	29.453***	46.920***	26.685***	39.124***	46.919***	45.770***	54.426***
	(8.048)	(4.320)	(12.14)	(6.230)	(9.349)	(12.14)	(11.60)	(10.36)
Credit Risk	4.523	2.357	3.157	3.918	2.513	3.157	2.653	0.328
	(1.190)	(0.472)	(0.803)	(0.999)	(0.639)	(0.803)	(0.705)	(0.075)
Interest	-1.160***	-0.525***	-1.247***	-1.277***	$-1.251^{***}$	-1.247***	-1.043***	-1.234***
Payments	(-17.26)	(-8.454)	(-19.12)	(-19.58)	(-19.17)	(-19.12)	(-13.37)	(-12.51)
Liquidity	0.049***	0.036***	0.045***	0.050***	0.046***	0.045***	0.046***	0.115***
	(7.669)	(4.854)	(6.843)	(7.531)	(6.959)	(6.843)	(6.691)	(11.16)
Opportunity Cost	24.739***	26.585***	27.546***	25.742***	27.034***	27.544***	30.219***	29.719***
	(6.305)	(5.580)	(7.168)	(6.699)	(7.028)	(7.168)	(7.463)	(5.188)
Capital Strength	-0.023***	-0.024***	-0.024***	-0.026***	-0.025***	-0.024***	-0.025***	-0.039***
	(-5.040)	(-5.081)	(-5.250)	(-5.796)	(-5.566)	(-5.250)	(-4.745)	(-4.647)
Non-Interest	-9.846***	-0.616	-10.440***	-11.598***	-11.128***	-10.441***	-9.577***	-15.050***
Revenues	(-12.55)	(-0.806)	(-13.32)	(-14.75)	(-14.12)	(-13.32)	(-11.39)	(-10.93)
Off Balance Sheet	-0.164***	-0.136***	-0.131***	-0.118***	-0.127***	-0.131***	0.148	-0.110***
	(-5.921)	(-6.081)	(-4.794)	(-4.325)	(-4.667)	(-4.795)	(1.409)	(-2.949)
Other Operating	1.654***	0.800***	1.624***	1.613***	1.620***	1.624***	1.497***	1.540***
Income	(33.22)	(16.03)	(33.58)	(33.38)	(33.48)	(33.58)	(27.89)	(19.75)
Observations	51,010	41,739	52,027	52,027	52,027	52,027	41,710	21,805
Number of Banks	4,782	3,922	4,847	4,847	4,847	4,847	4,843	2,125
$R^2$	0.0336	0.0241	0.0359	0.0369	0.0353	0.0359	0.0303	0.0330
$\chi^2$	1,405	522.6	1,525	1,583	1,487	1,525	1,143	720.1

#### Table 6

#### **Cross-Country Determinants of Bank Profitability: Controlling Home-Country**

#### **Characteristics for Foreign Banks**

Dependent variable is Net Interest Margin (NIM). Numbers in parenthesis are t-values. \*, \*\*, \*\*\* denote statistically significant at level of 10%, 5%, and 1%, respectively.

Independent	Home-Countr	y Characteri	istics for Foreigr	ı Banks			
Variables	Developing Country	GDP	Real Interest Rate	Inflation Rate Level	Legal Risk	Economic Risk	Control of Corruption
Constant	9.449***	7.823***	8.181***	7.835***	14.849***	14.885***	6.908***
	(17.19)	(78.55)	(81.70)	(78.58)	(5.885)	(5.897)	(59.56)
Foreign Bank (FB)	0.665	$0.241^{***}$	0.341***	$0.229^{***}$	-6.026**	-6.372***	$1.435^{***}$
	(1.413)	(2.911)	(4.151)	(2.962)	(-2.490)	(-2.602)	(12.76)
FB×Developing	-0.394**						
Country (Home)	(-2.075)						
FB×GDP (Home)		-0.010					
		(-0.845)					
FB×Real Interest			0.002				
Rate (Home)			(0.478)				
FB×Inflation Rate				-0.002***			
Level (Home)				(-6.791)			
FB×Legal Risk					0.255		
(Home)					(1.315)		
FB×Economic						0.398	
Risk (Home)						(1.568)	
FB×Control of							-1.092***
Corruption(Home)							(-15.60)
<b>Operation</b> Cost	-36.663***	-3.015***	-3.142***	-3.002***	-73.137***	-73.041***	-2.957***
	(-13.55)	(-8.769)	(-9.763)	(-8.748)	(-15.61)	(-15.59)	(-8.239)
Bank Size	-0.526***	-0.564***	-0.514***	-0.571***	-0.346***	-0.350***	-0.522***
	(-7.776)	(-24.37)	(-22.55)	(-24.60)	(-2.881)	(-2.915)	(-19.56)
Market Share	2.808***	6.414***	6.328***	$6.516^{***}$	4.641**	4.579*	3.824***
	(2.908)	(14.02)	(13.62)	(14.07)	(1.982)	(1.960)	(6.939)
Credit Risk	0.807	1.014*	1.138**	1.001*	0.085	0.038	1.024*
	(0.714)	(1.848)	(2.125)	(1.821)	(0.0593)	(0.0263)	(1.715)
<b>Interest Payments</b>	$0.612^{***}$	0.223***	0.238***	$0.222^{***}$	1.080***	$1.079^{***}$	0.184***
	(21.52)	(45.12)	(49.10)	(45.02)	(21.36)	(21.34)	(34.87)
Liquidity	0.006***	0.001**	0.000	0.001*	0.004	0.004	0.005***
	(2.813)	(2.036)	(0.707)	(1.940)	(1.010)	(0.990)	(5.874)
<b>Opportunity</b> Cost	7.972***	9.118***	8.801***	9.053***	15.026***	15.048***	9.405***
	(9.513)	(26.90)	(26.59)	(26.61)	(8.877)	(8.891)	(23.73)
Capital Strength	0.001	0.003***	0.004***	0.003***	-0.001	-0.001	0.004***
	(0.773)	(6.251)	(8.870)	(6.250)	(-0.145)	(-0.186)	(8.373)
Non-Interest	-8.541***	-5.301***	-6.141***	-5.272***	-8.508***	-8.497***	-4.315***
Revenues	(-42.36)	(-81.70)	(-85.99)	(-81.25)	(-21.12)	(-21.11)	(-59.52)
<b>Off Balance Sheet</b>	-0.047*	-0.017***	-0.017***	-0.017***	-0.202	-0.206*	-0.009***
	(-1.845)	(-8.357)	(-9.153)	(-8.269)	(-1.620)	(-1.645)	(-4.178)
Other Operating	-0.196***	-0.154***	-0.165***	-0.154***	-0.261***	-0.261***	-0.143***
Income	(-18.27)	(-41.13)	(-44.35)	(-41.19)	(-14.38)	(-14.38)	(-34.91)
Observations	6,622	50,868	47,496	50,706	2,040	2,040	37,312
Number of Banks	607	4,746	4,701	4,738	313	313	4,763
$R^2$	0.489	0.331	0.357	0.329	0.553	0.553	0.306
$\chi^2$	3,365	12,771	14,062	12,727	1,561	1,562	7,766

	Home-Coun	try Characteris	tics for Fore	ign Banks			
Independent Variables	Regulatory Quality	Government Effectiveness	Bank Capital	Ownership Restrictiveness	Basel Risk Weights	Securities Activities	Licensed Certified Auditor
Constant	12.628***	12.703***	6.068***	6.075***	6.075***	6.065***	6.074***
	(4.532)	(4.557)	(44.49)	(44.51)	(44.54)	(44.44)	(44.51)
Foreign Bank (FB)	-4.851*	-4.951*	0.777***	0.346***	0.250	0.327***	0.252*
	(-1.785)	(-1.821)	(6.726)	(3.131)	(1.566)	(3.275)	(1.764)
FB×Regulatory Quality	-0.117*						
(Home)	(-1.888)						
FB×Government		-0.045					
Effectiveness (Home)		(-0.906)					
FB×Bank Capital			-0.505***				
(Home)			(-4.813)				
FB×Ownership				0.143*			
Restrictiveness (Home)				(1.955)			
FB×Basel Risk Weights					0.207		
(Home)					(1.613)		
FB×Securities						$0.294^{***}$	
Activities (Home)						(4.145)	
FB×Licensed/Certified							$0.175^{*}$
Auditor (Home)							(1.922)
Operation Cost	-82.239***	-82.447***	-3.932***	-3.933***	-3.929***	-3.929***	-3.928**
	(-18.16)	(-18.20)	(-10.09)	(-10.09)	(-10.08)	(-10.09)	(-10.08)
Bank Size	-0.311***	-0.324***	-0.462***	-0.462***	-0.462***	-0.460***	-0.462**
	(-3.307)	(-3.459)	(-14.86)	(-14.85)	(-14.85)	(-14.77)	(-14.86)
Market Shares	4.456**	4.318**	3.812***	3.790***	3.819***	3.701***	3.847***
	(2.289)	(2.219)	(6.071)	(6.032)	(6.082)	(5.888)	(6.122)
Credit Risk	0.066	0.049	0.862	0.902	0.852	0.917	0.862
	(0.0626)	(0.0465)	(1.265)	(1.322)	(1.248)	(1.343)	(1.262)
Interest Payments	1.187***	1.189***	$0.214^{***}$	0.214***	$0.214^{***}$	$0.214^{***}$	0.214***
	(23.97)	(24.00)	(35.62)	(35.64)	(35.66)	(35.65)	(35.65)
Liquidity	0.010***	0.010***	0.009***	0.009***	0.009***	0.009***	0.009***
	(3.138)	(3.159)	(8.986)	(8.868)	(8.874)	(8.827)	(8.909)
Opportunity Cost	7.602***	7.607***	$11.025^{***}$	11.029***	11.050***	11.017***	11.053**
	(6.219)	(6.217)	(23.08)	(23.08)	(23.12)	(23.06)	(23.13)
Capital Strength	0.002	0.002	$0.005^{***}$	$0.005^{***}$	$0.005^{***}$	$0.005^{***}$	0.005***
	(1.316)	(1.281)	(8.507)	(8.437)	(8.401)	(8.452)	(8.417)
Non-Interest Revenues	-7.354***	-7.331***	-4.079***	-4.080***	-4.084***	-4.071***	-4.085**
	(-23.59)	(-23.51)	(-51.10)	(-51.09)	(-51.15)	(-50.96)	(-51.15)
Off Balance Sheet	-0.083	-0.085	-0.019***	-0.019***	-0.019***	-0.019***	-0.019**
	(-1.349)	(-1.397)	(-7.814)	(-7.820)	(-7.831)	(-7.810)	(-7.840)
Other Operating	-0.134***	-0.134***	-0.128***	-0.129***	-0.129***	-0.129***	-0.128**
Income	(-7.105)	(-7.130)	(-26.45)	(-26.49)	(-26.48)	(-26.52)	(-26.46)
Observations	2,624	2,624	28,177	28,177	28,177	28,177	28,177
Number of Banks	317	317	4,633	4,633	4,633	4,633	4,633
$R^2$	0.556	0.556	0.318	0.318	0.319	0.319	0.319
$\mathcal{X}^2$	1,729	1,725	5,681	5,655	5,658	5,671	5,655

#### Table 6 (Continued)

#### Table 6 (Continued)

Independent	Home-Cour	try Characteris	tics for Foreign	Banks			
Variables	Auditor's Report	Consolidated Accounts	Solvency Intervention	Onsite Inspections	HHI Assets	HHI Loans	HHI Deposit
Constant	6.074*** (44.50)	6.090*** (44.44)	6.101*** (44.58)	6.061*** (44.46)	6.474*** (34.72)	6.466*** (34.69)	6.469** (34.70)
Foreign Bank (FB)	(11.00) 0.080 (0.274)	(11.11) $0.516^{***}$ (4.714)	0.355*** (3.317)	(11.10) $0.552^{***}$ (5.645)	0.151 (0.841)	0.182 (0.974)	0.178
FB×Auditor's	0.385	(4.714)	(0.017)	(0.040)	(0.041)	(0.374)	(0.355)
Report(Home)	(1.372)						
FB×Consolidated		-0.108					
Accounts (Home)		(-1.036)					
FB×Solvency			0.197 * *				
Intervention (Home)			(2.130)				
FB×Onsite Inspections				-0.020***			
(Home)				(-3.638)			
FB×HHI Assets					2.320*		
(Home)					(1.957)		
FB×HHI Loans (Home)						2.182 (1.467)	
FB×HHI Deposits							1.980
(Home)							(1.525)
Operation Cost	-3.930***	-3.983***	-3.962***	-3.911***	-40.626***	-40.633***	-40.585
-	(-10.09)	(-10.19)	(-10.16)	(-10.04)	(-17.33)	(-17.33)	(-17.31
Bank Size	-0.461***	-0.463***	-0.462***	-0.458***	-0.288***	-0.288***	-0.288*
	(-14.81)	(-14.84)	(-14.82)	(-14.72)	(-7.258)	(-7.244)	(-7.240
Market Shares	3.809***	3.795***	3.798***	3.779***	-1.309	-1.323	-1.326
	(6.063)	(6.021)	(6.043)	(6.020)	(-1.226)	(-1.239)	(-1.242
Credit Risk	0.889	0.875	0.889	0.912	1.763**	1.755**	1.763*
	(1.303)	(1.283)	(1.304)	(1.338)	(2.307)	(2.298)	(2.308)
Interest Payments	0.214***	$0.215^{***}$	0.215***	0.213***	$0.425^{***}$	$0.425^{***}$	$0.424^{**}$
-	(35.64)	(35.53)	(35.60)	(35.59)	(16.36)	(16.37)	(16.34
Liquidity	0.009***	0.009***	0.009***	0.009***	0.012***	0.012***	0.012**
	(8.886)	(8.946)	(8.836)	(8.852)	(9.903)	(9.926)	(9.903
Opportunity Cost	11.044***	11.181***	11.016***	11.015***	4.388***	4.383***	4.383**
	(23.11)	(23.24)	(23.01)	(23.06)	(6.206)	(6.197)	(6.197
Capital Strength	0.005***	0.005***	0.005***	0.005***	-0.001	-0.001*	-0.001
	(8.387)	(8.349)	(8.383)	(8.390)	(-1.638)	(-1.647)	(-1.627)
Non-Interest Revenues	-4.085***	-4.117***	-4.125***	-4.083***	-5.343***	-5.337***	-5.340*
	(-51.16)	(-50.95)	(-51.19)	(-51.15)	(-36.87)	(-36.84)	(-36.85
Off Balance Sheet	-0.019***	-0.019***	-0.020***	-0.019***	-0.061*	-0.061*	-0.061
	(-7.816)	(-7.811)	(-7.867)	(-7.771)	(-1.744)	(-1.746)	(-1.748
Other Operating	-0.129***	-0.129***	-0.129***	-0.128***	0.109***	0.109***	0.109**
Income	(-26.49)	(-26.25)	(-26.29)	(-26.48)	(8.770)	(8.763)	(8.770
Observations	28,177	28,023	28,142	28,148	5,182	5,182	5,182
Number of Banks	4,633	4,633	4,633	4,633	774	774	774
$R^2$	0.319	0.319	0.319	0.318	0.381	0.382	0.382
$\chi^2$	5,653	5,596	5,621	5,660	2,141	2,139	2,140

Independent	Home-Country	Characteristics	for Foreign Bank	s	
Variables	CR4 Assets	CR4 Loans	CR4 Deposits	$\operatorname{P-R} H\text{-statistics}$	Lerner Index
Constant	6.461***	6.582***	6.711***	6.829***	6.847***
	(34.73)	(32.16)	(18.34)	(37.41)	(34.16)
Foreign Bank (FB)	0.311**	0.352**	0.323	0.295*	0.096
	(2.072)	(2.248)	(1.191)	(1.725)	(0.603)
FB×CR4 Assets (Home)	4.257***				
	(4.844)				
FB×CR4 Loans (Home)		-5.069			
		(-0.412)			
FB×CR4 Deposits (Home)			-7.900		
			(-0.400)		
FB×P-R <i>H</i> -statistics (Home)				0.134	
				(1.269)	
FB×Lerner Index (Home)					-0.003
					(-0.101)
Operation Cost	-40.885***	-42.898***	-38.755***	-37.892***	-38.761***
-	(-17.47)	(-16.55)	(-9.119)	(-18.02)	(-15.21)
Bank Size	-0.289***	-0.295***	-0.114	-0.397***	-0.327***
	(-7.281)	(-6.845)	(-1.509)	(-9.905)	(-7.760)
Market Shares	-1.226	-1.514	-2.500	-1.117	-2.019*
	(-1.150)	(-1.334)	(-1.583)	(-1.064)	(-1.745)
Credit Risk	1.776**	1.971**	3.086*	2.653***	2.814***
	(2.327)	(2.474)	(1.919)	(3.888)	(4.600)
Interest Payments	0.428***	$0.445^{***}$	0.333***	0.394***	$0.405^{***}$
	(16.51)	(15.41)	(7.009)	(16.72)	(13.76)
Liquidity	0.012***	0.011***	0.014***	0.010***	0.010***
	(9.769)	(8.788)	(5.503)	(8.983)	(7.415)
Opportunity Cost	4.280***	3.634***	0.926	3.546***	3.376***
	(6.067)	(4.679)	(0.652)	(5.543)	(4.451)
Capital Strength	-0.001*	-0.001	-0.001	-0.001	0.002***
	(-1.705)	(-1.434)	(-0.684)	(-1.595)	(2.848)
Non-Interest Revenues	-5.302***	-5.457 ***	-6.691***	-4.869***	-5.217***
	(-36.64)	(-33.66)	(-24.73)	(-36.13)	(-32.03)
Off Balance Sheet	-0.062*	-0.053	0.520***	-0.202***	-0.259***
	(-1.772)	(-1.436)	(2.704)	(-7.656)	(-9.096)
Other Operating Income	0.109***	0.118***	0.184***	0.025***	0.039***
	(8.807)	(8.782)	(9.154)	(2.701)	(3.470)
Observations	5,182	4,354	1,751	6,058	4,916
Number of Banks	774	755	320	815	668
$R^2$	0.383	0.386	0.302	0.309	0.319
$\gamma^2$	2,169	1,876	967.2	2,151	1,876

#### Table 6 (Continued)

#### Table 7

# Cross-Country Determinants of Bank Profitability: Controlling Host-Country Characteristics for Foreign Banks Numbers in parenthesis are *t*-values. \*, \*\*, \*\*\* denote statistically significant at level of 10%, 5%, and 1%, respectively.

Independent		•	istics for Foreign			E	Control : C
Variables	Developing Country	GDP	Real Interest Rate	Inflation Rate Level	Legal Risk	Economic Risk	Control of Corruption
Constant	7.683***	7.794***	8.127***	7.734***	5.645***	5.643***	6.908***
	(77.09)	(78.21)	(80.84)	(77.59)	(44.78)	(44.95)	(59.56)
Foreign Bank (FB)	-0.331***	0.717***	0.378***	0.222***	-1.029***	-1.711***	1.435***
	(-3.536)	(8.901)	(4.864)	(2.932)	(-5.450)	(-9.174)	(12.76)
FB×Developing	$1.526^{***}$						
Country (Host)	(10.51)						
FB×GDP (Host)		-0.141***					
		(-16.28)					
FB×Real Interest Rate			0.001				
(Host)			(0.404)				
FB×Inflation Rate				0.005***			
Level (Host)				(19.05)			
FB×Legal Risk (Host)					0.746***		
					(7.291)	1 000444	
FB×Economic Risk						1.006***	
(Host)						(11.57)	1 000+++
FB×Control of							-1.092***
Corruption (Host)	0.010***	0.010***	0.000+++	0.00.4***	0.054***	0.01 5***	(-15.60)
Operation Cost	-3.019***	-3.018***	-3.229***	-3.064***	-2.254***	-2.217***	-2.957***
	(-8.712)	(-8.719)	(-9.705)	(-8.882)	(-6.544)	(-6.444)	(-8.239)
Bank Size	-0.526***	-0.554***	-0.490***	-0.556***	-0.406***	-0.398***	-0.522***
Maulaat Chaman	(-22.68) 5.366***	(-23.96) C 252***	(-21.56)	(-23.98) 6.221***	(-13.83)	(-13.62)	(-19.56) $3.824^{***}$
Market Shares		$6.258^{***}$	6.370***		2.134***	$2.146^{***}$	
Credit Risk	(11.91)	(13.49)	(13.45)	(13.21)	(3.365)	(3.404)	(6.939) $1.024^*$
Credit Kisk	0.818	$1.071^{*}$	1.119**	$1.003^{*}$	$1.205^{*}$	$1.120^{*}$	
Internet Dermonte	(1.487) 0.230***	(1.942) $0.225^{***}$	(2.098) 0.248***	(1.819) $0.229^{***}$	(1.911) 0.138***	(1.779) $0.134^{***}$	(1.715) $0.184^{***}$
Interest Payments	(46.35)	(45.20)	(50.34)	(46.25)	(25.33)	(24.56)	
Tionidity	(46.55) 0.002***	(45.20) $0.002^{***}$	(30.34) 0.001**	(46.25) 0.002***	(25.55) 0.011***	(24.56) $0.011^{***}$	(34.87) $0.005^{***}$
Liquidity	(2.702)		(2.061)			(12.13)	(5.874)
Opportunity Cost	(2.702) 8.872***	(3.129) 9.049***	(2.061) $9.074^{***}$	(3.185) 9.111***	(12.05) $8.713^{***}$	(12.13) 8.666***	(5.874) $9.405^{***}$
Opportunity Cost	(26.05)	(26.63)	(27.05)	(26.76)	(19.80)	(19.74)	(23.73)
Capital Strength	0.002***	0.002***	0.003***	0.002***	0.004***	(15.74) $0.004^{***}$	0.004***
Capital Strength	(5.752)	(5.459)	(8.219)	(5.727)	(8.170)	(8.003)	(8.373)
Non-Interest Revenues	-5.307***	-5.358***	-6.324***	-5.273***	-3.492***	-3.517***	-4.315***
ivon-interest itevenues	(-81.52)	(-82.35)	(-87.58)	(-81.20)	(-50.12)	(-50.58)	(-59.52)
Off Balance Sheet	-0.017***	-0.017***	-0.020***	-0.016***	-0.009***	-0.009***	-0.009***
On Dalance Sheet	(-8.480)	(-8.119)	(-10.01)	(-7.785)	(-3.931)	(-3.802)	(-4.178)
Other Operating	-0.159***	-0.156***	-0.167***	-0.161***	-0.101***	-0.099***	-0.143***
Income	(-42.31)	(-41.48)	(-44.22)	(-43.01)	(-22.43)	(-21.83)	(-34.91)
Observations	51,296	51,167	47,950	51,065	27,779	27,779	37,312
Number of Banks	4,783	4,771	4,733	4,769	4,576	4,576	4,763
$R^2$	0.342	0.339	0.366	4,705 0.341	4,570 0.273	4,570 0.275	4,705
10	0.014	0.000	0.000	13,257	4,736	0.210	0.000

Independent Variables	Regulatory Quality	Government Effectiveness	Bank Capital	Ownership Restrictiveness	Basel Risk Weights	Securities Activities	Licensed Certifie Auditor
Constant	6.923***	6.932***	5.989***	5.994***	5.993***	5.965***	5.993**
constant	(59.77)	(59.88)	(44.28)	(44.32)	(44.32)	(44.11)	(44.32)
Foreign Bank (FB)	1.349***	1.566***	0.533**	0.384***	-4.148***	0.067	-0.643*
r or orgin Barnin (r B)	(11.86)	(13.12)	(2.052)	(3.393)	(-6.733)	(0.655)	(-1.974
FB×Regulatory Quality	-1.117***	(10.12)	(1.001)	(0.000)	( 0.100)	(0.000)	( 1.01 1
(Host)	(-14.08)						
FB×Government	(1100)	-1.104***					
Effectiveness (Host)		(-15.32)					
FB×Bank Capital		(10102)	-0.237				
(Host)			(-0.965)				
FB×Ownership			( 0.000)	-0.082			
Restrictiveness (Host)				(-1.357)			
FB×Basel Risk					4.475***		
Weights (Host)					(7.306)		
FB×Securities					(	0.365***	
Activities (Host)						(5.852)	
FB×Licensed/Certified						(,	0.951**
Auditor (Host)							(3.023
Operation Cost	-2.951***	-2.971***	-3.681***	-3.686***	-3.678***	-3.671***	-3.683*
	(-8.212)	(-8.273)	(-9.604)	(-9.617)	(-9.608)	(-9.585)	(-9.611
Bank Size	-0.528***	-0.530***	-0.462***	-0.464***	-0.463***	-0.454***	-0.462*
	(-19.82)	(-19.90)	(-14.91)	(-14.95)	(-14.94)	(-14.64)	(-14.89
Market Shares	4.404***	3.993***	3.879***	3.915***	3.809***	3.672***	3.923**
	(8.048)	(7.265)	(6.227)	(6.278)	(6.116)	(5.888)	(6.295)
Credit Risk	0.949	0.822	0.932	0.950	2.301***	0.913	0.926
	(1.594)	(1.380)	(1.390)	(1.417)	(3.305)	(1.364)	(1.382)
Interest Payments	0.184***	0.185***	0.190***	0.190***	0.189***	0.191***	0.190**
	(34.89)	(35.00)	(31.80)	(31.81)	(31.69)	(31.95)	(31.82
Liquidity	0.005***	0.005***	0.010***	0.010***	0.010***	0.009***	0.010**
	(6.183)	(5.920)	(9.990)	(9.993)	(10.02)	(9.746)	(9.993
Opportunity Cost	9.613***	9.468***	$10.582^{***}$	10.610***	10.558***	$10.466^{***}$	10.601*
	(24.28)	(23.90)	(22.78)	(22.83)	(22.75)	(22.52)	(22.82)
Capital Strength	0.004***	0.004***	0.004***	0.004***	0.004***	$0.005^{***}$	0.004**
	(8.186)	(8.269)	(8.084)	(8.072)	(8.069)	(8.221)	(8.090
Non-Interest Revenues	-4.353***	-4.324***	-3.894***	-3.895***	-3.894***	-3.873***	-3.905*
	(-60.03)	(-59.64)	(-49.93)	(-49.95)	(-49.99)	(-49.64)	(-50.03
Off Balance Sheet	-0.009***	-0.009***	-0.016***	-0.016***	-0.016***	-0.016***	-0.016*
	(-4.270)	(-4.080)	(-6.338)	(-6.324)	(-6.310)	(-6.363)	(-6.339
Other Operating	-0.142***	-0.144***	-0.120***	-0.120***	-0.119***	-0.120***	-0.120*
Income	(-34.72)	(-35.15)	(-24.14)	(-24.17)	(-24.07)	(-24.29)	(-24.14
Observations	37,312	37,312	28,155	28,155	28,155	28,155	28,155
Number of Banks	4,763	4,763	4,627	4,627	4,627	4,627	4,627
$R^2$	0.314	0.311	0.303	0.304	0.298	0.306	0.303
$\chi^2$	7,730	7,766	5,064	5,064	5,119	5,105	5,073

#### Table 7 (Continued)

Ta dan an dan t	Host-Countr	ry Characteristic	es for Foreign B	anks		
Independent Variables	Auditor's	Consolidated	Solvency	Onsite	HHI	HHI
variables	Report	Accounts	Intervention	Inspections	(Assets)	(Loans)
Constant	5.990***	5.991***	6.004***	5.975***	7.757***	7.745***
	(44.30)	(44.12)	(44.28)	(44.23)	(77.90)	(77.75)
Foreign Bank (FB)	0.214	0.303*	0.110	0.306**	$0.275^{***}$	0.033
	(1.165)	(1.673)	(1.073)	(2.313)	(3.088)	(0.371)
FB×Auditor's Report	0.090					
(Host)	(0.544)					
FB×Consolidated		-0.007				
Accounts (Host)		(-0.0420)				
FB×Solvency			$0.504^{***}$			
Intervention (Host)			(4.736)			
FB×Onsite				-0.005		
Inspections (Host)				(-0.0740)		
FB×HHI Assets (Host)					-0.191	
					(-0.380)	
FB×HHI Loans (Host)						2.480***
						(4.606)
Operation Cost	-3.683***	-3.724***	-3.693***	-3.664***	-3.062***	-3.051***
D 1 ()	(-9.609)	(-9.687)	(-9.629)	(-9.566)	(-8.829)	(-8.798)
Bank Size	-0.462***	-0.461***	-0.460***	-0.457***	-0.552***	-0.546***
	(-14.91)	(-14.83)	(-14.82)	(-14.74)	(-23.89)	(-23.58)
Market Shares	3.877***	3.857***	3.738***	3.801***	5.955***	5.440***
	(6.224)	(6.167)	(5.992)	(6.104)	(13.03)	(11.83)
Credit Risk	0.930	0.925	0.855	0.942	1.036*	1.070*
I. I. D. I	(1.388)	(1.383)	(1.277)	(1.409)	(1.880)	(1.941)
Interest Payments	0.191***	0.191***	0.190***	0.190***	0.231***	0.231***
T	(31.84) 0.010***	(31.66) 0.010***	(31.60) $0.009^{***}$	(31.78) 0.009***	(46.60) $0.002^{***}$	(46.59) $0.002^{***}$
Liquidity			0.000			
	(9.973) $10.584^{***}$	(10.10) $10.714^{***}$	(9.899) 10.460***	(9.910) $10.574^{***}$	(2.943) $9.124^{***}$	(2.940) $9.108^{***}$
Opportunity Cost					•••===	0.200
Capital Strength	(22.78) 0.004***	(22.89) 0.004***	(22.44) $0.004^{***}$	(22.78) $0.004^{***}$	(26.82) $0.002^{***}$	(26.78) $0.002^{***}$
Capital Strength		(7.994)	(7.941)	(8.098)		(5.537)
Non-Interest	(8.103) -3.895***	-3.921***	(7.941) -3.913***	(8.098) -3.896***	(5.557) - $5.331^{***}$	(0.007) -5.334***
Revenues	-5.895	(-49.68)	(-49.69)	-3.896	(-81.86)	-5.554 (-81.92)
Off Balance Sheet	(-49.94) -0.016***	-0.016***	-0.016***	-0.016***	-0.017***	(-81.92) -0.017***
On Datance Dileet	(-6.342)	(-6.345)	(-6.360)	(-6.276)	(-8.478)	(-8.330)
Other Operating	-0.120***	-0.120***	-0.119***	-0.120***	-0.160***	-0.161***
Income	(-24.17)	(-23.87)	(-23.88)	(-24.16)	(-42.47)	(-42.65)
Observations	28,155	27,989	28,108	28,120	51,296	51,296
Number of Banks	4,627	4,627	4,627	4,627	4,783	4,783
$R^2$	0.304	0.303	0.306	4,027	4,700 0.339	4,785 0.339
$\chi^2$	5.065	4,987	5,029	5,052	12,958	12,978
$\mathcal{A}$	0,000	4,001	0,040	0,002	12,000	12,010

#### Table 7 (Continued)

#### Table 7 (Continued)

Independent	Host-Country (	Characteristics fo	or Foreign Banks			
Variables	HHI	CR4	CR4	CR4	P-R	Lerner
	(Deposits)	(Assets)	(Loans)	(Deposits)	H-Statistics	Index
Constant	7.758***	7.762***	7.732***	10.985***	7.487***	6.361***
	(77.89)	(77.97)	(70.54)	(54.34)	(80.41)	(60.92)
Foreign Bank (FB)	0.289***	0.256***	0.224***	0.152	0.190***	0.213**
8	(3.143)	(3.407)	(2.942)	(1.037)	(2.653)	(2.279)
FB×HHI Deposits	-0.333	~ /				
(Host)	(-0.609)					
FB×Host CR4 Assets	(	-3.998***				
(Host)		(-3.546)				
FB×CR4 Loans (Host)		( 0.0 10)	-4.962***			
			(-3.599)			
FB×CR4 Deposits			( 0.000)	-4.444***		
(Host)				(-2.953)		
FB×P-R <i>H</i> -Statistics				( 2.000)	-0.000	
(Host)					(-1.126)	
FB×Lerner Index					(-1.120)	0.068***
(Host)						(7.273)
Operation Cost	-3.063***	-3.060***	-4.329***	-2.956***	-3.893***	-1.516***
Operation Cost	(-8.830)	-3.000 (-8.824)	(-8.941)	(-6.228)	(-12.26)	(-5.089)
Bank Size	-0.553***	(-0.024) -0.555***	(-6.941) $-0.524^{***}$	(-8.228) -1.042***	(-12.26) -0.532***	-0.431***
Bank Size						
Mail of Change	(-23.89)	(-24.03)	(-20.55)	(-21.28)	(-24.56)	(-17.83)
Market Shares	5.980***	6.289***	6.578***	7.162***	4.828***	3.648***
	(13.04)	(13.68)	(13.46)	(10.08)	(9.889)	(4.952)
Credit Risk	1.039*	1.011*	0.906	0.442	1.115**	1.489**
TA AD A	(1.885)	(1.835)	(1.642)	(0.586)	(2.169)	(2.334)
Interest Payments	0.231***	0.231***	0.255***	0.238***	0.234***	0.215***
	(46.59)	(46.57)	(40.86)	(32.23)	(49.21)	(42.73)
Liquidity	0.002***	0.002***	0.001*	0.005***	0.004***	0.005***
	(2.943)	(2.982)	(1.733)	(4.193)	(6.619)	(7.061)
Opportunity Cost	9.124***	9.113***	10.301***	8.692***	9.207***	7.469***
	(26.82)	(26.79)	(26.74)	(16.05)	(28.11)	(18.08)
Capital Strength	0.002***	0.002***	0.003***	0.003***	0.002***	0.002***
	(5.556)	(5.544)	(7.145)	(4.293)	(5.538)	(3.727)
Non-Interest Revenues	-5.331***	-5.331***	-5.490***	-7.633***	-5.233***	-3.996***
	(-81.86)	(-81.87)	(-74.34)	(-63.11)	(-86.27)	(-61.75)
Off Balance Sheet	-0.017***	-0.017***	0.025***	-0.018***	-0.026***	-0.016***
	(-8.481)	(-8.463)	(2.924)	(-6.218)	(-13.45)	(-8.807)
Other Operating	-0.160***	-0.160***	-0.168***	-0.167***	-0.134***	-0.166***
Income	(-42.46)	(-42.49)	(-37.75)	(-27.82)	(-37.10)	(-40.89)
Observations	51,296	51,296	40,987	21,080	50,277	41,458
Number of Banks	4,783	4,783	4,779	2,063	4,718	3,896
$R^2$	0.339	0.340	0.356	0.325	0.358	0.324
$\chi^2$	12,956	12,974	11,077	6,586	13,864	8,512

#### Table 8

Independent	FB*Host	FB*Host	FB*Host	FB*Host	FB*Host	FB*Home	FB*Home
Variables	HHI Loan	CR4 Assets	CR4 Loan	CR4 Deposits	Lerner	CR4 Assets	HHI Assets
Constant	5.481***	5.472***	5.526***	10.268***	4.266***	5.887***	5.962***
Constant	(42.43)	(42.32)	(38.54)	(39.70)	4.266 (31.65)	(25.49)	(25.34)
Foreign Bank	-5.599***	-6.184***	(38.54) -4.671***	-7.026***	-1.513	-2.156	-3.370**
Foreign Dank	-5.367)	(-5.983)	(-3.817)	(-4.920)	(-0.560)	(-1.290)	(-1.993)
FB*Host Developing	(-5.567) 0.547*	0.371	(-3.817) 0.079	0.139	0.328	0.872	(-1.993) 0.748
r D Host Developing	(1.837)	(1.258)	(0.261)	(0.282)	(0.794)	(1.582)	(1.332)
FB* Host GDP	-0.028**	-0.026*	-0.020	-0.053***	0.003	-0.046*	-0.047*
FD Host GDI	(-2.031)	(-1.902)	(-1.265)	(-2.930)	(0.111)	(-1.664)	(-1.690)
FB*Host INF	0.014*	0.013	0.012	0.015	-0.018	-0.072***	-0.080***
	(1.796)	(1.607)	(1.291)	(1.599)	(-1.643)	(-5.258)	(-5.820)
FB*Host RE	-0.133	-0.179	-0.132	-0.272	0.209	0.987**	0.938*
	(-0.684)	(-0.924)	(-0.607)	(-0.932)	(0.739)	(2.037)	(1.905)
FB*Host GO	-0.030	0.013	-0.224	-0.014	-0.298	-0.600	-0.283
	(-0.132)	(0.0563)	(-0.869)	(-0.0391)	(-0.967)	(-1.202)	(-0.559)
FB*Host LR	-0.149	-0.137	-0.138	-0.055	0.374	0.526	0.777*
	(-0.783)	(-0.721)	(-0.663)	(-0.200)	(1.349)	(1.206)	(1.750)
FB*Host ER	0.719***	0.744***	0.669***	0.637***	0.887***	0.568*	0.816***
12 11000 110	(4.351)	(4.508)	(3.590)	(2.785)	(3.310)	(1.859)	(2.641)
FB*Host SU3	0.022	0.024	0.024	0.024	-0.405	-1.830**	-2.222***
	(1.464)	(1.561)	(1.486)	(1.334)	(-0.804)	(-2.320)	(-2.747)
FB*Host SU4	3.606***	3.629***	2.753***	3.511***	-1.957	2.981***	1.901*
	(4.717)	(4.746)	(3.294)	(3.894)	(-0.801)	(3.609)	(1.837)
FB*Host SU5	0.085	0.112	0.023	0.149	-0.147	-0.535***	-0.449**
	(0.868)	(1.149)	(0.201)	(1.135)	(-1.195)	(-3.042)	(-2.521)
FB*Host SU6	1.539***	1.723***	1.615***	2.683***	2.078***	1.645***	1.145**
	(4.213)	(4.754)	(3.891)	(5.944)	(3.920)	(4.318)	(2.021)
FB*Host SU9	0.335**	0.302*	0.362**	0.529**	0.226	-0.155	-0.412
	(2.161)	(1.953)	(1.981)	(2.063)	(1.039)	(-0.458)	(-1.199)
FB*Home SU1	-0.305**	-0.266*	-0.250	-0.554**	-0.345	-0.279	-0.387
	(-2.004)	(-1.753)	(-1.487)	(-2.100)	(-1.395)	(-0.872)	(-1.191)
FB*Home SU2	0.041	0.024	-0.008	0.361**	-0.048	-0.057	-0.001
	(0.491)	(0.284)	(-0.0860)	(2.398)	(-0.484)	(-0.347)	(-0.00404)
FB*Home SU3	0.011	0.009	0.013	0.015	0.069	1.170	1.346*
	(0.620)	(0.546)	(0.715)	(0.750)	(0.139)	(1.551)	(1.753)
FB*Home SU5	0.073	0.055	0.082	-0.076	0.258**	0.806***	1.094***
	(0.691)	(0.514)	(0.657)	(-0.505)	(1.963)	(4.177)	(5.671)
FB*Home SU6	-0.429**	-0.433**	-0.353*	-0.964***	-0.385*	0.588**	$0.559^{*}$
	(-2.506)	(-2.528)	(-1.769)	(-3.495)	(-1.853)	(1.995)	(1.870)
FB*Home SU7	0.345	0.337	0.183	0.132	0.423*	0.301	0.120
	(1.399)	(1.365)	(0.364)	(0.246)	(1.748)	(1.072)	(0.421)
FB*Home SU9	-0.119	-0.105	-0.167	0.002	-0.034	-0.085	-0.086
	(-0.886)	(-0.778)	(-1.022)	(0.00782)	(-0.196)	(-0.316)	(-0.313)
FB*Home SU10	0.013	0.014	0.010	0.050***	0.008	-0.009	-0.008
	(1.437)	(1.527)	(0.955)	(3.244)	(0.631)	(-0.497)	(-0.424)
FB*Host HHI Loan	-4.106***	× /	· · · ·			· /	
	(-4.046)						
FB*Host CR4 Assets	× /	-1.835					
		(-1.063)					
FB*Host CR4 Loan		(	-2.501				
			(-1.270)				
FB*Host CR4 Deposits			· · · · · /	-3.375			
				(-1.643)			
FB*Host Lerner				()	-0.086***		
					(-3.193)		
FB*Home CR4 Assets					/	10.244***	
						(9.602)	
FB*Home HHI Assets						· · · /	4.156***
							(3.099)

# Cross-Country Determinants of Bank Profitability: Combining Host- and Home-Country Characteristics for Foreign Banks

# Table 8 (Continued)

Independent	FB*Host	FB*Host	FB*Host	FB*Host	FB*Host	FB*Home	FB*Home
Variables	HHI Loan	CR4 Assets	CR4 Loan	CR4 Deposits	Lerner	CR4 Assets	HHI Assets
Operation Cost	-2.507***	-2.504***	-4.579***	-2.887***	-2.565***	-34.013***	-33.412***
	(-7.292)	(-7.281)	(-7.103)	(-6.687)	(-7.493)	(-11.71)	(-11.37)
Bank Size	-0.376***	-0.372***	-0.366***	-1.143***	-0.224***	-0.249***	-0.240***
	(-12.55)	(-12.38)	(-11.12)	(-18.55)	(-7.509)	(-5.514)	(-5.218)
Market Share	2.883***	2.433***	3.122***	4.908***	0.939	-2.614**	-2.966**
	(4.265)	(3.467)	(4.160)	(4.826)	(0.822)	(-2.098)	(-2.339)
Credit Risk	$1.795^{***}$	1.860***	1.594**	1.285	-0.708	2.510***	$2.582^{***}$
	(2.589)	(2.683)	(2.307)	(1.551)	(-0.676)	(3.073)	(3.093)
Interest Payments	0.132***	0.133***	0.164***	0.129***	0.147***	0.300***	0.293***
	(23.52)	(23.56)	(19.50)	(16.73)	(21.62)	(9.170)	(8.835)
Liquidity	0.011***	0.010***	0.009***	0.014***	$0.015^{***}$	0.018***	0.018***
	(11.75)	(11.74)	(8.780)	(10.69)	(14.92)	(11.13)	(10.79)
Opportunity Cost	9.847***	9.849***	10.816***	7.173***	11.709***	5.789***	5.790***
	(21.05)	(21.04)	(19.36)	(9.992)	(20.17)	(5.964)	(5.872)
Capital Strength	0.005***	0.005***	0.006***	0.008***	0.005***	0.001	0.001
	(8.753)	(8.719)	(8.669)	(8.889)	(8.552)	(1.355)	(1.396)
Non-Interest Revenues	-3.404***	-3.405***	-3.526***	-6.566***	-2.856***	-5.595***	-5.747***
	(-47.59)	(-47.58)	(-41.56)	(-48.68)	(-36.82)	(-30.95)	(-31.41)
Off Balance Sheet	-0.007***	-0.007***	$0.125^{***}$	-0.010***	-0.008***	0.083*	0.079*
	(-3.004)	(-3.016)	(7.124)	(-2.787)	(-3.666)	(1.793)	(1.693)
Other Operating Inc.	-0.100***	-0.101***	-0.113***	-0.091***	-0.106***	$0.172^{***}$	$0.175^{***}$
	(-21.56)	(-21.59)	(-18.00)	(-13.30)	(-18.49)	(11.59)	(11.63)
Observations	26544	26544	19579	10991	21672	2882	2882
Number of Banks	4523	4523	4504	1840	3729	628	628
$R^2$	0.259	0.259	0.280	0.283	0.256	0.394	0.392
$\chi^2$	4,664	4,647	3,857	3,526	3,424	1,977	1,842

# Table 9 Impact of Foreign Ownership on Profitability: Results from Individual Country Regressions

The table provides summarized results from examining the impact of foreign ownership on profitability for each country in the sample based on regression model (9).

Criteria		Significant	Ir	nsignificant
Foreign banks perform better than domestic ones	Austria Egypt Italy Panama Singapore Tunisia	Algeria Indonesia Kenya Poland Slovenia United States	Australia Bangladesh Switzerland Cyprus France Honduras Netherlands Peru Venezuela	Algeria Colombia Denmark Greece Macau Norway Reunion Zimbabwe
Domestic banks perform better than foreign ones	Croatia Egypt Luxembourg	Hong Kong Thailand	Bulgaria Canada Ireland South Africa Slovakia Czech Korea, Republic	Bolivia Hungary Mexico Portugal Spain Indonesia

<b>A</b>				Total Assets	
Country	Bank Name	Specialization	Home Country	(US Dollars in	(Year)
(# of Bank)				millions)	
	ABN Amro Bank	Commercial Bank	Netherlands	327.7	(2006)
	American Express Bank Ltd SA	Commercial Bank	USA	17.3	(2006)
	Banco B.I. Creditanstalt S.A.	Commercial Bank	Austria	30.7	(2006)
	Banco de la Republica Oriental del	Commercial Bank	Singapore	105.7	(2002)
	Banco de San Juan S.A.	Commercial Bank	Uruguay	447.7	(2004)
	Banco do Brasil SA	Commercial Bank	Brazil	30.8	(2004)
	Banco Empresario de Tucuman	Commercial Bank	Brazil	37.8	(2004)
ARGENTINA	Banco Europeo para America Latina -	Commercial Bank	Germany	217.7	(2005)
	Banco Itau Buen Ayres SA	Commercial Bank	Brazil	741.3	(2003)
(17)	Bank of America NA	Commercial Bank	USA	207	(2003)
	Bank of Tokyo - Mitsubishi UFJ	Commercial Bank	Japan	58.1	(2002)
	BBVA Banco Frances SA	Commercial Bank	Spain	4,703.1	(2002)
	BNP Paribas	Commercial Bank	France	3,278.8	(2006)
	Citibank NA	Commercial Bank	USA	2,758.8	(2006)
	ING Bank	Commercial Bank	South Africa	1,492.1	(2006)
	JP Morgan Chase Bank	Commercial Bank	USA	379.1	(2006)
	Standard Bank Argentina	Commercial Bank	South Africa	2,715.1	(2006)
	Adria Bank AG	Commercial Bank	Slovenia	257.1	(2006)
	Banco do Brasil AG	Commercial Bank	Brazil	124.8	(2006)
AUSTRIA	Bank Vontobel Oesterreich AG	Commercial Bank	Switzerland	276.2	(2006)
(6)	Constantia PrivatBank AG	Commercial Bank	Netherlands	254.7	(2005)
	Privatinvest Bank AG	Commercial Bank	Germany	461.1	(2006)
	VTB Bank (Austria) AG	Commercial Bank	Russian Federation	772.5	(2005)
	BA Australia Ltd	Commercial Bank	USA	1,711.1	(2000)
	Calyon Australia Limited	Commercial Bank	United Kingdom	911.1	(2004)
AUSTRALIA	Citigroup Pty Limited	Commercial Bank	Singapore	$14,\!257.5$	(2004)
(6)	Dai-Ichi Kangyo Australia Ltd.	Commercial Bank	Japan	726.3	(2001)
	SG Australia Limited	Commercial Bank	France	10,414.2	(2004)
	Toronto Dominion Australia Ltd.	Commercial Bank	Canda	140.6	(2004)
	AXA Bank Belgium	Savings Bank	France	19,773.4	(2005)
	Banca Monte Paschi Belgio SA	Commercial Bank	Italy	1,229.4	(2006)
	Byblos Bank Europe SA	Commercial Bank	Lebanon	592.4	(2005)
	Citibank Belgium N.V./S.A.	Commercial Bank	USA	2,822.3	(2005)
	CP Banque-Banque de Credit	Cooperative Bank	France	593.1	(2005)

# Appendix 1 List of Foreign Banks in Sample: Bank Name, Specialization, Home Country, Total Assets

Country				Total Assets	
(# of Bank)	Bank Name	Specialization	Home Country	(US Dollars in	(Year)
(# 01 Dalik)				millions)	
	Delta Lloyd Bank	Commercial Bank	Netherlands	4,309.9	(2005
	Deutsche Bank NV-Deutsche Bank SA	Commercial Bank	Germany	5,075.2	(2005
	F. van Lanschot Bankiers Belgie	Commercial Bank	Netherlands	1,767.3	(2005
	GOFFIN Bank NV	Savings Bank	Luxembourg	229.0	(2005
	ING-ING Belgium SA/NV	Commercial Bank	Netherlands	200,562.4	(2006
BELGIUM	Puilaetco Dewaay Private Bankers NV/SA	Commercial Bank	Luxembourg	351.2	(2005
(17)	Record Bank SA/NV	Commercial Bank	Netherlands	8,330.2	(2004
	Santander Benelux SA/NV	Commercial Bank	Spain	698.5	(2005
	SG Private Banking	Commercial Bank	France	681.8	(2005
	Shizuoka Bank (Europe) SA	Commercial Bank	Japan	565.9	(2006
	United Taiwan Bank	Commercial Bank	Taiwan	362.2	(2006
	UPAR	Savings Bank	France	2.3	(2003
	BNP Paribas (Bulgaria) E.A.D.	Commercial Bank	France	183.1	(2006
	Bulgarian Post Bank JSC	Commercial Bank	Greece	1,033.1	(2006
	DSK Bank Plc	Savings Bank	Hungary	4,077.6	(2006
	MKB Unionbank AD	Commercial Bank	Hungary	409.9	(2005
BULGARIA	Piraeus Bank Bulgaria AD	Commercial Bank	Greece	325.5	(2006
(9)	Raiffeisenbank (Bulgaria) EAD	Commercial Bank	Austria	2,631.5	(2005
	Societe Generale Expressbank	Commercial Bank	France	319.1	(2002
	UniCredit Bulbank AD	Commercial Bank	Italy	1,061.2	(2005
	United Bulgarian Bank - UBB	Commercial Bank	Greece	2,667.0	(2006
	Banco de Credito de Bolivia S.A.	Commercial Bank	Bermuda	646.5	(2006
BOLIVIA	Banco de la Nacion Argentina	Commercial Bank	Argentina	14.7	(2006
(4)	Banco do Brasil SA	Commercial Bank	Brazil	31.6	(2006
	Citibank NA	Commercial Bank	USA	50.2	(2006
	Banco ABC - Brasil SA	Commercial Bank	Bahrain	1,767.2	(2006
	Banco Citibank	Commercial Bank	USA	10,412.1	(2005
	Banco Credit Suisse First Boston SA	Commercial Bank	Switzerland	273.1	(2003
	Banco de Tokyo-Mitsubishi UFJ Brasil	Commercial Bank	Japan	367.7	(2006
BRAZIL	Banco JP Morgan SA	Commercial Bank	USA	2,469.5	(2004
(16)	Banco Rabobank International Brasil S.A.	Commercial Bank	Netherlands	1,766.6	(2006
	Banco Societe General Brasil SA	Commercial Bank	France	132.4	(2003
	Banco Sofisa S.A.	Commercial Bank	USA	869.9	(2006
	Banco Sumitomo Mitsui Brasileiro SA	Commercial Bank	Japan	468.1	(2006

Country (# of Bank)         Bank Name         Specialization         Home Country (US Dollars in (Vear) millions)           (# of Bank)         Banco UBS Pactual SA         Commercial Bank         Switzerland         8,474.9         (2005)           BARAZIL (Pl)         Banco Valkwagen SA         Commercial Bank         Germany         2,233.8         (2005)           Banif - Banco International do Funchal         Commercial Bank         Portugal         4464.0         (2006)           Citibank NA         Commercial Bank         Portugal         4464.0         (2006)           Deutseche Bank SA - Banco Alemao         Commercial Bank         Germany         2,302.0         (2004)           Deutseche Bank SA - Banco Alemao         Commercial Bank         USA         3,652.8         (2006)           Amex Bank of Canada         Commercial Bank         Mack         3,652.8         (2006)           Bank of Canada         Commercial Bank         Hong Kong         3,652.8         (2006)           Gribank Canada         Commercial Bank         Hong Kong         3,652.8         (2006)           Gribank Canada         Commercial Bank         France         4.258.4         (2006)           Gribank Canada         Commercial Bank         France         4.258.4         (2006)					Total Assets	
(# of Bank)         millions)           Banco UBS Pactual SA         Commorcial Bank         Switzerland         8,474.9         (2005)           BRAZIL,         Banco Velkswagen SA         Commercial Bank         Germany         2,233.8         (2005)           BRAZIL,         Banco WestLB do Brasil SA         Commercial Bank         Germany         849.7         (2006)           (16)         Gitbank NA         Commercial Bank         USA         1,523.9         (2006)           Doutsche Bank SA - Banco Alemao         Commercial Bank         USA         1,523.9         (2006)           Doutsche Bank Brasil S.A Banco         Commercial Bank         Germany         2,302.0         (2004)           ABN Amro Bank NV         Commercial Bank         Cermany         374.2         (2005)           Bank of China (Canada)         Commercial Bank         USA         3,652.8         (2006)           Bank of China (Canada)         Commercial Bank         USA         3,652.8         (2006)           Bank of Cast Asia (Canada)         Commercial Bank         USA         3,62.2         (2006)           Bank of Canada         Commercial Bank         USA         13,244.1         (2002)           (13)         Cititzons Bank of Canada         Commercial Ban	-	Bank Name	Specialization	Home Country		(Year)
Banco Volkswagen SACommercial BankGermany2,233.8(2005)BRAZELI (16)Banco WestLB do Brasil SACommercial BankCermany849.7(2005)Banif - Banco International de FunchalCommercial BankDortugal464.0(2006)Citibank NACommercial BankUSA1,523.9(2004)Deutsche Bank SA - Banco AlemaoCommercial BankGermany2,302.0(2004)Deutsche Bank SA - Banco AlemaoCommercial BankGermany3,622.8(2006)ARN Amo Bank NVCommercial BankNetherlands2.2(2006)Amex Bank of CanadaCommercial BankNetherlands2.2(2006)Bank of China (Canada)Commercial BankMorg Kong363.2(2006)Bank of China (Canada)Commercial BankHong Kong363.2(2006)Bank of Tokyo - Mitsubishi UFJ (Canada)Commercial BankJapan2,752.6(2005)(13)Citibank CanadaCommercial BankMorea140.3(2005)(14)Citibank CanadaCommercial BankKorea Rep. of(40.5(2006)Maga International Commercial BankCommercial BankKorea Rep. of(40.5(2004)Sciete Grale (Canada)Commercial BankUnited Kingdom47.6(2004)Matonal Bank of GrandaCommercial BankMarian14.6(2006)Matonal Bank of GrandaCommercial BankMarian41.6(2006)Matonal Bank of GrandaCommercial BankMarian14.6	(# of Bank)		-			. ,
BRAZIII         Banco WestLB do Brasil SA         Commercial Bank         Germany         849.7         (2005)           (16)         Ganif - Banco International de Funchal         Commercial Bank         Portugal         464.0         (2006)           Citibank NA         Commercial Bank         USA         1,523.9         (2006)           Deutsche Bank SA - Banco Alemao         Commercial Bank         Germany         2,302.0         (2004)           Dresdner Bank Brasil SA Banco         Commercial Bank         Germany         374.2         (2006)           Amox Bank Or Canada         Commercial Bank         Netherlands         2.2         (2006)           Bank of China (Canada)         Commercial Bank         Hong Kong         363.2         (2006)           Bank of Tokyo - Mitsubishi UFJ (Canada)         Commercial Bank         Hong Kong         363.2         (2006)           Bank of Tokyo - Mitsubishi UFJ (Canada)         Commercial Bank         Hong Kong         363.2         (2005)           Gitibank Canada         Commercial Bank         Korea Rep. of         605.2         (2006)           Maga International Commercial Bank         Commercial Bank         Korea Rep. of         (2004)         (2004)           National Bank of Gracea (Canada)         Commercial Bank         Indi		Banco UBS Pactual SA	Commercial Bank	Switzerland	8,474.9	(2005)
BRAZIL (16)         Banif - Banco International de Funchal Citibank NA         Commercial Bank Commercial Bank         Portugal         464.0         (2006)           Deutsche Bank NA         Commercial Bank         USA         1,523.9         (2006)           Deutsche Bank SA - Banco Alemao         Commercial Bank         Germany         374.2         (2005)           ARN Amro Bank NV         Commercial Bank         Germany         374.2         (2006)           Anex Bank of Canada         Commercial Bank         USA         3,652.8         (2006)           Bank of China (Canada)         Commercial Bank         Hong Kong         363.2         (2006)           Bank of Tokyo - Mitsubishi UFJ (Canada)         Commercial Bank         Hong Kong         363.2         (2006)           Bank of Tokyo - Mitsubishi UFJ (Canada)         Commercial Bank         France         4,258.8         (2005)           (13)         Citizens Bank of Canada         Commercial Bank         USA         13,244.1         (2002)           (13)         Citizens Bank of Canada         Commercial Bank         Korea Rechange Gank of Canada         Commercial Bank         Korea Rechange         (2006)           National Bank of Greece (Canada)         Commercial Bank         United Kingdom         473.6         (2006)		Banco Volkswagen SA	Commercial Bank	Germany	2,233.8	(2005)
Banif - Banco International de FunchalCommercial BankPortugal464.0(2006)Citibank NACommercial BankUSA1,523.0(2004)Deutsche Bank SA - Banco AlemaoCommercial BankGermany2,302.0(2004)Dresdner Bank Brasil SA BancoCommercial BankGermany374.2(2006)ABN Amro Bank NVCommercial BankMetherlands2.2(2006)Bank of CanadaCommercial BankUSA3,652.8(2006)Bank of CanadaCommercial BankChina201.8(2006)Bank of Tokyo - Mitsubishi UFJ (Canada)Commercial BankHong Kong363.2(2006)Bank of Tokyo - Mitsubishi UFJ (Canada)Commercial BankFrance4,258.8(2005)Citibank CanadaCommercial BankUSA13,241.1(2002)(13)Citibank CanadaCommercial BankKorea Rep. of605.6(2006)Mega International Commercial BankCreace1409.3(2004)Societo Crale (Canada)Commercial BankKorea Rep. of605.6(2006)National Bank of CanadaCommercial BankKorea Rep. of605.6(2006)Societo Crale (Canada)Commercial BankFrance2,310.3(2006)Societo Crale (Canada)Commercial BankFrance2,310.3(2006)Societo Crale (Canada)Commercial BankFrance2,310.3(2006)Bonco do Brasil SACommercial BankMarenti1,767.2(2006)Bonco do Brasil SA<		Banco WestLB do Brasil SA	Commercial Bank	Germany	849.7	(2005)
Citibank NACommercial BankUSA1,52.3(2006)Deutsche Bank SA - Banco AlemaoCommercial BankGermany2,302.0(2001)Dresdner Bank Brasil SA BancoCommercial BankGermany374.2(2005)ABN Amro Bank NVCommercial BankNetherlands2.2(2006)Bank of CanadaCommercial BankUSA3,652.8(2006)Bank of China (Canada)Commercial BankChina201.8(2006)Bank of East Asia (Canada)Commercial BankHong Kong363.2(2006)Bank of Tokyo - Mitsubishi UFJ (Canada)Commercial BankJapan2,752.6(2006)Bank of Tokyo - Mitsubishi UFJ (Canada)Commercial BankUSA13,241.1(2022)(13)Citibank CanadaCommercial BankUSA13,244.1(2002)(13)Citizens Bank of CanadaCommercial BankKorea Rep. of605.6(2006)Mega International Commercial BankCommercial BankKorea Rep. of605.6(2006)National Bank of Greece (Canada)Commercial BankFrance2,310.3(2006)Societe Grale (Canada)Commercial BankFrance2,310.3(2006)BOLIVIABanco de Credito de Bolivia SA.Commercial BankFrance2,310.3(2006)BOLIVIABanco de Nacion ArgentinaCommercial BankMargenina14.7(2006)BOLIVIABanco de Credito de Bolivia SA.Commercial BankBrazil31.6(2006)BANCBanco ADC		Banif - Banco International de Funchal	Commercial Bank	Portugal	464.0	(2006)
Dresdner Bank Brasil S.A BancoCommercial BankGermany374.2(2005)ABN Amro Bank NVCommercial BankNetherlands2.2(2006)Amex Bank of CanadaCommercial BankUSA3,652.8(2006)Bank of China (Canada)Commercial BankChina201.8(2006)Bank of Tokyo - Mitsubishi UFJ (Canada)Commercial BankJapan2,752.6(2006)Bank of Tokyo - Mitsubishi UFJ (Canada)Commercial BankJapan2,752.6(2006)Bank of Tokyo - Mitsubishi UFJ (Canada)Commercial BankUSA13,244.1(2002)Citibank CanadaCommercial BankUSA13,244.1(2002)Citizens Bank of CanadaCommercial BankKorea Rep. of605.6(2006)Korea Exchange Bank of CanadaCommercial BankKorea Rep. of605.6(2006)Mega International Commercial BankCommercial BankTaiwan212.4(2006)National Bank of Greece (Canada)Commercial BankUnited Kingdom473.6(2004)Societe Grale (Canada)Commercial BankUnited Kingdom473.6(2006)BolLIVIABanco da Credito de Bolivia S.A.Commercial BankArgenina14.7(2006)BolLIVIABanco da Credito de Bolivia S.A.Commercial BankBrazil31.6(2006)Gitibank NACommercial BankCommercial BankUSA50.2(2006)(4)Banco da Credito de Bolivia S.A.Commercial BankBrazil31.6(2006)	(16)	Citibank NA	Commercial Bank	USA	1,523.9	(2006)
ABN Amro Bank NV         Commercial Bank         Netherlands         2.2         (2006)           Amex Bank of Canada         Commercial Bank         USA         3,652.8         (2006)           Bank of China (Canada)         Commercial Bank         China         201.8         (2006)           Bank of East Asia (Canada)         Commercial Bank         Hong Kong         363.2         (2006)           Bank of Tokyo - Mitsubishi UFJ (Canada)         Commercial Bank         Japan         2,752.6         (2006)           BNP Paribas (Canada)         Commercial Bank         France         4,258.8         (2002)           Citibank Canada         Commercial Bank         USA         13,244.1         (2002)           Citizens Bank of Canada         Commercial Bank         Korea Rep. of         605.6         (2006)           Mega International Commercial Bank         Commercial Bank         Taiwan         212.4         (2006)           National Bank of India (Canada)         Commercial Bank         United Kingdom         473.6         (2004)           Societe Grale (Canada)         Commercial Bank         India         356.4         (2006)           Banco de Credito de Bolivia S.A.         Commercial Bank         India         366.4         (2006)           Banco de Cre		Deutsche Bank SA - Banco Alemao	Commercial Bank	Germany	2,302.0	(2004)
Amex Bank of CanadaCommercial BankUSA3,652.8(2006)Bank of China (Canada)Commercial BankChina201.8(2008)Bank of East Asia (Canada)Commercial BankHong Kong363.2(2009)Bank of Tokyo - Mitsubishi UFJ (Canada)Commercial BankJapan2,752.6(2009)Bank of Tokyo - Mitsubishi UFJ (Canada)Commercial BankFrance4,258.8(2009)Citibank CanadaCommercial BankUSA13,244.1(2002)Citizens Bank of CanadaCommercial BankGreece1409.3(2006)Korea Exchange Bank of CanadaCommercial BankKorea Rep. of605.6(2006)Mega International Commercial BankCommercial BankUnited Kingdom473.6(2004)Scoiete Grale (Canada)Commercial BankUnited Kingdom473.6(2004)Mational Bank of India (Canada)Commercial BankIndia356.4(2006)BOLIVIABanco de Credito de Bolivia S.A.Commercial BankIndia356.4(2006)Bonco de Credito de Bolivia S.A.Commercial BankIndia316.6(2006)Banco de Credito de Bolivia S.A.Commercial BankBaraini1,767.2(2006)Banco de Credito de Bolivia S.A.Commercial BankIndia361.4(2006)Banco de Drasil SACommercial BankBaraini1,767.2(2006)Banco Credit Suisse First Boston SACommercial BankSwitzerland2,469.5(2004)(%)Banco Credit Suisse Fir		Dresdner Bank Brasil S.A Banco	Commercial Bank	Germany	374.2	(2005
Bank of China (Canada)Commercial BankChina201.8201.6Bank of East Asia (Canada)Commercial BankHong Kong363.2(2006)Bank of Tokyo - Mitsubishi UFJ (Canada)Commercial BankJapan2,752.6(2006)BNP Paribas (Canada)Commercial BankFrance4,258.8(2002)Citibank CanadaCommercial BankUSA13,244.1(2002)Citizens Bank of CanadaCommercial BankGreece1409.3(2006)Korea Excharge Bank of CanadaCommercial BankKorea Rep. of605.6(2006)Mega International Commercial BankCommercial BankTaiwan212.4(2006)National Bank of Greece (Canada)Commercial BankUnited Kingdom473.6(2004)Societ Crale (Canada)Commercial BankIndia356.4(2006)BOLIVIABanco de Credito de Bolivia S.A.Commercial BankBermuda646.5(2006)Guitana MACommercial BankArgenina14.7(2006)BOLIVIABanco de Brasil SACommercial BankBrazil31.6(2006)Guitbank NACommercial BankBahrain1,767.2(2006)Banco Credit Suisse First Boston SACommercial BankUSA2,469.5(2004)(%)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankSwitzerland2,762.6(2004)(%)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankUSA2,469.5(2006)(%)Banco Credit Suisse First Boston		ABN Amro Bank NV	Commercial Bank	Netherlands	2.2	(2006)
Bank of East Asia (Canada)Commercial BankHong Kong363.2(2006)Bank of Tokyo - Mitsubishi UFJ (Canada)Commercial BankJapan2,752.6(2006)BNP Paribas (Canada)Commercial BankFrance4,258.8(2005)(13)Citizans CanadaCommercial BankUSA13,244.1(2002)(12)Citizens Bank of CanadaCommercial BankGreece1409.3(2006)Korea Exchange Bank of CanadaCommercial BankKorea Rep. of605.6(2006)Mega International Commercial BankCommercial BankTaiwan212.4(2006)National Bank of Greece (Canada)Commercial BankUnited Kingdom473.6(2006)Societe Grale (Canada)Commercial BankFrance2,310.3(2006)BOLIVIABanco de Credito de Bolivia S.A.Commercial BankBermuda646.5(2006)(4)Banco de Ia Nacion ArgentinaCommercial BankBrazil31.6(2006)(4)Banco do Brasil SACommercial BankUSA50.2(2006)(4)Banco ABC - Brasil SACommercial BankBahrain1,767.2(2006)Banco Credit buisse First Boston SACommercial BankUSA2,469.5(2007)(9)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankJapan367.7(2006)(9)Banco PMorgan SACommercial BankUSA2,469.5(2004)(9)Banco Abbohank International Brasil SA.Commercial BankUSA2,469.5 <td></td> <td>Amex Bank of Canada</td> <td>Commercial Bank</td> <td>USA</td> <td>3,652.8</td> <td>(2006)</td>		Amex Bank of Canada	Commercial Bank	USA	3,652.8	(2006)
CANADA (13)Bank of Tokyo - Mitsubishi UFJ (Canada)Commercial BankJapan2,752.6(2005)CANADA (13)BNP Paribas (Canada)Commercial BankFrance4,258.8(2005)Citizens Bank of CanadaCommercial BankUSA13,244.1(2002)Citizens Bank of CanadaCommercial BankGreece1409.3(2006)Korea Exchange Bank of CanadaCommercial BankKorea Rep. of605.6(2006)Mega International Commercial BankCommercial BankTaiwan212.4(2006)National Bank of Greece (Canada)Commercial BankUnited Kingdom473.6(2006)Sciete Grale (Canada)Commercial BankFrance2,310.3(2006)BolLIVIABanco de Credito de Bolivia S.A.Commercial BankIndia356.4(2006)BOLLIVIABanco de Credito de Bolivia S.A.Commercial BankBrazil11.4(2006)(4)Banco do Brasil SACommercial BankMargenina11.4.7(2006)(4)Banco do Brasil SACommercial BankUSA50.2(2006)Banco ABC - Brasil SACommercial BankSwitzerland10.412.1(2007)(9)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankJapan367.7(2006)(9)Banco Abdohank International Brasil SA.Commercial BankUSA2,469.5(2004)(9)Banco Abdohank International Brasil SA.Commercial BankUSA2,469.5(2004)(9)Banco Societe Genera		Bank of China (Canada)	Commercial Bank	China	201.8	(2006)
CANADA (13)BNP Paribas (Canada)Commercial BankFrance4,258.8(2005)(13)Citibank CanadaCommercial BankUSA13,244.1(2002)(13)Citizens Bank of CanadaCommercial BankGreece1409.3(2005)Korea Exchange Bank of CanadaCommercial BankKorea Rep. of605.6(2006)Mega International Commercial BankCommercial BankTaiwan212.4(2006)National Bank of Greece (Canada)Commercial BankUnited Kingdom473.6(2004)Societe Grale (Canada)Commercial BankFrance2,310.3(2006)State Bank of India (Canada)Commercial BankIndia356.4(2006)BOLIVIABanco de Credito de Bolivia S.A.Commercial BankBernuda646.5(2006)BOLIVIABanco de la Nacion ArgentinaCommercial BankBrazil114.7(2006)(4)Banco de Basil SACommercial BankBrazil31.6(2006)(4)Banco ABC - Brasil SACommercial BankBahrain1,767.2(2006)Banco Credit Suisse First Boston SACommercial BankUSA273.1(2003)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankUSA2,469.5(2004)(9)Banco Gredit Suisse First Boston SACommercial BankUSA2,469.5(2006)Banco Arboy-Mitsubishi UFJ BrasilCommercial BankUSA2,469.5(2006)Banco Arboy-Mitsubishi UFJ BrasilCommercial BankUSA2,		Bank of East Asia (Canada)	Commercial Bank	Hong Kong	363.2	(2006)
CANADA (13)Citibank CanadaCommercial BankUSA13,244.1(2002)(13)Citizens Bank of CanadaCommercial BankGreece1409.3(2005)Korea Exchange Bank of CanadaCommercial BankKorea Rep. of605.6(2006)Mega International Commercial BankCommercial BankTaiwan212.4(2006)National Bank of Greece (Canada)Commercial BankUnited Kingdom473.6(2004)Societe Grale (Canada)Commercial BankFrance2,310.3(2006)State Bank of India (Canada)Commercial BankIndia356.4(2006)Banco de Credito de Bolivia S.A.Commercial BankBermuda646.5(2006)BOLIVIABanco de la Nacion ArgentinaCommercial BankArgenina11.47(2006)(4)Banco do Brasil SACommercial BankUSA50.2(2006)(4)Banco ABC - Brasil SACommercial BankUSA50.2(2006)Banco Credit Suisse First Boston SACommercial BankUSA10,412.1(2003)Banco Credit Suisse First Boston SACommercial BankUSA2,469.5(2004)(9)Banco ABcobank International Brasil SA.Commercial BankUSA2,469.5(2004)Banco Societe General Brasil SACommercial BankNetherlands1,766.6(2005)Banco Societe General Brasil SACommercial BankNetherlands1,766.6(2005)Banco Sofisa S.A.Commercial BankNetherlands1,766.6(2		Bank of Tokyo - Mitsubishi UFJ (Canada)	Commercial Bank	Japan	2,752.6	(2006)
(13) (13)Citibank CanadaCommercial BankUSA13,244.1(2002)Citizens Bank of CanadaCommercial BankGreece1409.3(2005)Korea Exchange Bank of CanadaCommercial BankKorea Rep. of605.6(2006)Mega International Commercial BankCommercial BankTaiwan212.4(2006)National Bank of Greece (Canada)Commercial BankUnited Kingdom473.6(2004)Societe Grale (Canada)Commercial BankIndia356.4(2006)State Bank of India (Canada)Commercial BankIndia356.4(2006)BOLIVIABanco de Credito de Bolivia S.A.Commercial BankBermuda646.5(2006)BOLIVIABanco de la Nacion ArgentinaCommercial BankArgenina11.47(2006)(4)Banco de la Nacion ArgentinaCommercial BankUSA50.2(2006)(4)Banco ABC - Brasil SACommercial BankUSA10.412.1(2005)Banco Credit Suisse First Boston SACommercial BankUSA10.412.1(2003)Banco Credit Suisse First Boston SACommercial BankUSA2.469.5(2004)(9)Banco ABO-bank International Brasil SA.Commercial BankUSA2.469.5(2004)Banco Societe General Brasil SACommercial BankNetherlands1.766.6(2006)Banco Societe General Brasil SACommercial BankSetterlands1.24.1(2003)Banco Societe General Brasil SACommercial BankNetherlands </td <td>CANADA</td> <td>BNP Paribas (Canada)</td> <td>Commercial Bank</td> <td>France</td> <td>4,258.8</td> <td>(2005)</td>	CANADA	BNP Paribas (Canada)	Commercial Bank	France	4,258.8	(2005)
Citizens Bank of CanadaCommercial BankGreece1409.3(2005)Korea Exchange Bank of CanadaCommercial BankKorea Rep. of605.6(2006)Mega International Commercial BankCommercial BankTaiwan212.4(2006)National Bank of Greece (Canada)Commercial BankUnited Kingdom473.6(2004)Societe Grale (Canada)Commercial BankUnited Kingdom473.6(2006)State Bank of India (Canada)Commercial BankIndia356.4(2006)Banco de Credito de Bolivia S.A.Commercial BankBermuda646.5(2006)Banco de la Nacion ArgentinaCommercial BankArgenina14.7(2006)(4)Banco do Brasil SACommercial BankBrazil31.6(2006)(4)Banco ABC - Brasil SACommercial BankUSA50.2(2006)Banco Credit Suisse First Boston SACommercial BankUSA10.412.1(2003)Banco Gredit Suisse First Boston SACommercial BankJapan367.7(2006)Banco JP Morgan SACommercial BankUSA2,469.5(2004)(9)Banco Abbohank International Brasil SA.Commercial BankNetherlands1,766.6(2006)Banco Societe General Brasil SACommercial BankNetherlands1,766.6(2006)Banco Societe General Brasil SA.Commercial BankKotenlands1,766.6(2004)(9)Banco Societe General Brasil SA.Commercial BankKotenlands1,766.6(2004)		Citibank Canada	Commercial Bank	USA	13,244.1	(2002)
Mega International Commercial BankCommercial BankTaiwan212.4(2006)National Bank of Greece (Canada)Commercial BankUnited Kingdom473.6(2004)Societe Grale (Canada)Commercial BankFrance2,310.3(2006)State Bank of India (Canada)Commercial BankIndia356.4(2006)Banco de Credito de Bolivia S.A.Commercial BankBermuda646.5(2006)(4)Banco de Ia Nacion ArgentinaCommercial BankArgenina14.7(2006)(4)Banco do Brasil SACommercial BankBrazil31.6(2006)(4)Banco ABC - Brasil SACommercial BankUSA50.2(2006)Banco ABC - Brasil SACommercial BankUSA10,412.1(2005)Banco Credit Suisse First Boston SACommercial BankSwitzerland273.1(2006)Banco JP Morgan SACommercial BankUSA2,469.5(2004)Banco Societe General Brasil SACommercial BankUSA2,469.5(2004)Banco Societe General Brasil SACommercial BankUSA2,469.5(2004)Banco Societe General Brasil SACommercial BankNetherlands1,766.6(2006)Banco Societe General Brasil SACommercial BankVSA36.9(2006)Banco Sofisa SA.Commercial BankState Seno30.4(2003)Banco Sofisa SA.Commercial BankState Seno30.4(2003)Banco Sofisa SA.Commercial BankVSA36.9	(13)	Citizens Bank of Canada	Commercial Bank	Greece	1409.3	(2005)
National Bank of Greece (Canada)Commercial BankUnited Kingdom473.6(2004)Societe Grale (Canada)Commercial BankFrance2,310.3(2006)State Bank of India (Canada)Commercial BankIndia356.4(2006)Banco de Credito de Bolivia S.A.Commercial BankBermuda646.5(2006)BOLIVIABanco de la Nacion ArgentinaCommercial BankArgenina14.7(2006)(4)Banco do Brasil SACommercial BankBrazil31.6(2006)(2)Citibank NACommercial BankUSA50.2(2006)Banco ABC - Brasil SACommercial BankBahrain1,767.2(2006)Banco Credit Suisse First Boston SACommercial BankUSA10,412.1(2005)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankJapan367.7(2006)Banco ABD - Brasil SACommercial BankUSA2,469.5(2004)Banco Credit Suisse First Boston SACommercial BankJapan367.7(2005)Banco DP Morgan SACommercial BankUSA2,469.5(2004)Banco Societe General Brasil SA.Commercial BankNetherlands1,766.6(2006)Banco Societe General Brasil SACommercial BankFrance132.4(2003)Banco Societe General Brasil SA.Commercial BankSetherlands1,766.6(2006)Banco Societe General Brasil SA.Commercial BankState132.4(2003)Banco Sofisa S.A.Commercial Bank		Korea Exchange Bank of Canada	Commercial Bank	Korea Rep. of	605.6	(2006)
Societe Grale (Canada)Commercial BankFrance2,310.3(2006)State Bank of India (Canada)Commercial BankIndia356.4(2006)Banco de Credito de Bolivia S.A.Commercial BankBermuda646.5(2006)BOLIVIABanco de la Nacion ArgentinaCommercial BankArgenina14.7(2006)(4)Banco do Brasil SACommercial BankBrazil31.6(2006)(2006)Citibank NACommercial BankUSA50.2(2006)Banco ABC - Brasil SACommercial BankUSA50.2(2006)Banco CitibankCommercial BankUSA10,412.1(2005)Banco Credit Suisse First Boston SACommercial BankUSA10,412.1(2003)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankJapan367.7(2006)Banco Rabobank International Brasil S.A.Commercial BankUSA2,469.5(2004)Banco Societe General Brasil SACommercial BankNetherlands1,766.6(2006)Banco Societe General Brasil SA.Commercial BankVSA364.5(2003)Banco Societe General Brasil SA.Commercial BankVSA364.5(2003)Banco Societe General Brasil SA.Commercial BankVSA364.5(2003)Banco Societe General Brasil SA.Commercial BankVSA869.9(2003)Banco Sofisa S.A.Commercial BankVSA869.9(2003)		Mega International Commercial Bank	Commercial Bank	Taiwan	212.4	(2006)
State Bank of India (Canada)Commercial BankIndia356.4(2006)Banco de Credito de Bolivia S.A.Commercial BankBermuda646.5(2006)Banco de la Nacion ArgentinaCommercial BankArgenina14.7(2006)(4)Banco do Brasil SACommercial BankBrazil31.6(2006)(2006)Citibank NACommercial BankUSA50.2(2006)Citibank NACommercial BankUSA50.2(2006)Banco ABC - Brasil SACommercial BankUSA10,412.1(2005)Banco Credit Suisse First Boston SACommercial BankSwitzerland273.1(2006)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankJapan367.7(2006)Banco Rabobank International Brasil SA.Commercial BankUSA2,469.5(2004)Banco Societe General Brasil SACommercial BankNetherlands1,766.6(2005)Banco Societe General Brasil SACommercial BankFrance132.4(2003)Banco Societe General Brasil SACommercial BankKerlands1,766.6(2004)Banco Societe General Brasil SACommercial BankFrance132.4(2003)Banco Societe General Brasil SACommercial BankState366.9(2004)Banco Societe General Brasil SACommercial BankState366.9(2004)Banco Societe General Brasil SACommercial BankState366.9(2004)Banco Societe General Brasil SACommercial Bank <t< td=""><td></td><td>National Bank of Greece (Canada)</td><td>Commercial Bank</td><td>United Kingdom</td><td>473.6</td><td>(2004)</td></t<>		National Bank of Greece (Canada)	Commercial Bank	United Kingdom	473.6	(2004)
Banco de Credito de Bolivia S.A.Commercial BankBermuda646.5(2006)BOLIVIABanco de la Nacion ArgentinaCommercial BankArgenina14.7(2006)(4)Banco do Brasil SACommercial BankBrazil31.6(2006)(2006)Citibank NACommercial BankUSA50.2(2006)Banco ABC - Brasil SACommercial BankBahrain1,767.2(2006)Banco CitibankCommercial BankUSA10,412.1(2005)Banco Credit Suisse First Boston SACommercial BankSwitzerland273.1(2003)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankJapan367.7(2006)Banco Rabobank International Brasil S.A.Commercial BankUSA2,469.5(2004)Banco Societe General Brasil SACommercial BankNetherlands1,766.6(2003)Banco Societa S.A.Commercial BankVSA869.9(2006)		Societe Grale (Canada)	Commercial Bank	France	2,310.3	(2006)
BOLIVIA (4)Banco de la Nacion ArgentinaCommercial BankArgenina14.7(2006)(4)Banco do Brasil SACommercial BankBrazil31.6(2006)Citibank NACommercial BankUSA50.2(2006)Banco ABC - Brasil SACommercial BankBahrain1,767.2(2006)Banco CitibankCommercial BankUSA10,412.1(2005)Banco Credit Suisse First Boston SACommercial BankSwitzerland273.1(2006)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankUSA2,469.5(2004)Banco JP Morgan SACommercial BankUSA2,469.5(2004)Banco Societe General Brasil SA.Commercial BankNetherlands1,766.6(2005)Banco Societe General Brasil SA.Commercial BankUSA366.9(2003)Banco Sofisa S.A.Commercial BankUSA869.9(2004)		State Bank of India (Canada)	Commercial Bank	India	356.4	(2006)
(4)Banco do Brasil SACommercial BankBrazil31.6(2006)Citibank NACommercial BankUSA50.2(2006)Banco ABC - Brasil SACommercial BankBahrain1,767.2(2006)Banco CitibankCommercial BankBahrain1,767.2(2006)Banco CitibankCommercial BankUSA10,412.1(2005)Banco Credit Suisse First Boston SACommercial BankSwitzerland273.1(2003)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankJapan367.7(2006)Banco JP Morgan SACommercial BankUSA2,469.5(2004)Banco Rabobank International Brasil S.A.Commercial BankNetherlands1,766.6(2006)Banco Societe General Brasil SACommercial BankFrance132.4(2003)Banco Sofisa S.A.Commercial BankUSA869.9(2006)		Banco de Credito de Bolivia S.A.	Commercial Bank	Bermuda	646.5	(2006)
Citibank NACommercial BankUSA50.2(2006)Banco ABC - Brasil SACommercial BankBahrain1,767.2(2006)Banco CitibankCommercial BankUSA10,412.1(2005)Banco Credit Suisse First Boston SACommercial BankSwitzerland273.1(2003)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankJapan367.7(2006)Banco JP Morgan SACommercial BankUSA2,469.5(2004)Banco Rabobank International Brasil S.A.Commercial BankNetherlands1,766.6(2006)Banco Sofisa S.A.Commercial BankUSA869.9(2006)	BOLIVIA	Banco de la Nacion Argentina	Commercial Bank	Argenina	14.7	(2006)
Banco ABC - Brasil SACommercial BankBahrain1,767.2(2006)Banco CitibankCommercial BankUSA10,412.1(2005)Banco Credit Suisse First Boston SACommercial BankSwitzerland273.1(2003)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankJapan367.7(2006)Banco JP Morgan SACommercial BankUSA2,469.5(2004)Banco Rabobank International Brasil S.A.Commercial BankNetherlands1,766.6(2006)Banco Societe General Brasil SACommercial BankFrance132.4(2003)Banco Sofisa S.A.Commercial BankUSA869.9(2006)	(4)	Banco do Brasil SA	Commercial Bank	Brazil	31.6	(2006)
Banco CitibankCommercial BankUSA10,412.1(2005)Banco Credit Suisse First Boston SACommercial BankSwitzerland273.1(2003)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankJapan367.7(2006)Banco JP Morgan SACommercial BankUSA2,469.5(2004)Banco Rabobank International Brasil S.A.Commercial BankNetherlands1,766.6(2006)Banco Societe General Brasil SACommercial BankFrance132.4(2003)Banco Sofisa S.A.Commercial BankUSA869.9(2006)		Citibank NA	Commercial Bank	USA	50.2	(2006)
BRAZIL (9)Banco Credit Suisse First Boston SACommercial BankSwitzerland273.1(2003)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankJapan367.7(2006)Banco JP Morgan SACommercial BankUSA2,469.5(2004)Banco Rabobank International Brasil SA.Commercial BankNetherlands1,766.6(2006)Banco Societe General Brasil SACommercial BankFrance132.4(2003)Banco Sofisa S.A.Commercial BankUSA869.9(2006)		Banco ABC - Brasil SA	Commercial Bank	Bahrain	1,767.2	(2006)
BRAZIL (9)Banco de Tokyo-Mitsubishi UFJ BrasilCommercial BankJapan367.7(2006)Banco JP Morgan SACommercial BankUSA2,469.5(2004)Banco Rabobank International Brasil SA.Commercial BankNetherlands1,766.6(2006)Banco Societe General Brasil SACommercial BankFrance132.4(2003)Banco Sofisa S.A.Commercial BankUSA869.9(2006)		Banco Citibank	Commercial Bank	USA	10,412.1	(2005)
BRAZIL (9)Banco JP Morgan SACommercial BankUSA2,469.5(2004)Banco Rabobank International Brasil S.A.Commercial BankNetherlands1,766.6(2006)Banco Societe General Brasil SACommercial BankFrance132.4(2003)Banco Sofisa S.A.Commercial BankUSA869.9(2006)		Banco Credit Suisse First Boston SA	Commercial Bank	Switzerland	273.1	(2003)
Banco JP Morgan SACommercial BankUSA2,469.5(2004)Banco Rabobank International Brasil S.A.Commercial BankNetherlands1,766.6(2006)Banco Societe General Brasil SACommercial BankFrance132.4(2003)Banco Sofisa S.A.Commercial BankUSA869.9(2006)	BRAZIL	Banco de Tokyo-Mitsubishi UFJ Brasil	Commercial Bank	Japan	367.7	(2006)
Banco Rabobank International Brasil S.A.Commercial BankNetherlands1,766.6(2006)Banco Societe General Brasil SACommercial BankFrance132.4(2003)Banco Sofisa S.A.Commercial BankUSA869.9(2006)		Banco JP Morgan SA	Commercial Bank	USA	2,469.5	(2004)
Banco Sofisa S.A.Commercial BankUSA869.9(2006)	(9)	Banco Rabobank International Brasil S.A.	Commercial Bank	Netherlands	1,766.6	(2006)
		Banco Societe General Brasil SA	Commercial Bank	France	132.4	(2003)
Banco Sumitomo Mitsui Brasileiro SACommercial BankJapan468.1(2006)		Banco Sofisa S.A.	Commercial Bank	USA	869.9	(2006)
		Banco Sumitomo Mitsui Brasileiro SA	Commercial Bank	Japan	468.1	(2006)

Country				Total Assets	
(# of Bank)	Bank Name	Specialization	Home Country	(US Dollars in	(Year)
(# 01 Dallk)				millions)	
	ABN Amro Bank (Schweiz) AG	Commercial Bank	Netherlands	2,816.4	(2005)
	American Express Bank (Switzerland) SA	Commercial Bank	USA	424.6	(2006)
	Banca Popolare di Sondrio (Suisse)	Commercial Bank	Italy	1,335.2	(2005)
	Bank Hapoalim (Schweiz) AG	Commercial Bank	Israel	3,344.7	(2006)
	Bank Leumi Le-Israel (Schweiz) AG	Commercial Bank	Israel Federation	739.1	(2006)
	Bank Linth	Commercial Bank	Liechtenstein	3,135.5	(2006
	BankMed (Suisse) SA	Commercial Bank	Lebanon	171.2	(2005
	Banque de Commerce et de Placements	Commercial Bank	Turkey	1,288.0	(2006)
	Banque Du Bois AG	Commercial Bank	Singapore	65.1	(2005)
	Banque Privet Espirito Santo SA	Commercial Bank	Luxembourg	265.7	(2006)
	Barclays Bank (Suisse) SA	Commercial Bank	United Kindom	2,340.3	(2006)
	BBVA (Suiza) SA	Commercial Bank	Spain	648.9	(2005)
	BHF-BANK (Schweiz) AG	Commercial Bank	Germany	274.1	(2006)
	BIPIELLE Bank (Suisse) SA	Commercial Bank	Italy	439.2	(2002)
	BLOM Bank (Switzerland) SA	Commercial Bank	France	115.2	(2005)
SWITZERLAN	BSI AG	Commercial Bank	Netherlands	10,042.9	(2006)
	Credit Europe Bank (Suisse) SA	Commercial Bank	Netherlands	485.4	(2006)
(39)	Credit Agricole (Suisse) SA	Commercial Bank	France	21,220.1	(2005)
	Deutsche Bank (Suisse) SA	Commercial Bank	Germany	4,616.3	(2006)
	FIBI Bank (Schweiz) AG	Commercial Bank	Israel	169.0	(2006)
	Fortis Banque (Suisse) SA	Commercial Bank	Luxembourg	1,597.2	(2006)
	GE Money Bank	Commercial Bank	USA	4,063.3	(2006)
	Goldman Sachs Bank AG	Commercial Bank	USA	477.4	(2006)
	IBI Bank AG	Commercial Bank	Czech Republic	55.5	(2006)
	ING Bank (Suisse) SA	Commercial Bank	Belgium	3,645.0	(2006)
	JP Morgan (Suisse) SA	Commercial Bank	USA	2,193.3	(2005)
	Kredietbank (Suisse) SA	Commercial Bank	Netherlands	296.3	(2003)
	Mizuho Bank (Schweiz) AG	Commercial Bank	Japan	269.1	(2006)
	Nomura Bank (Switzerland) Ltd	Commercial Bank	Japan	318.4	(2004)
	Pargesa Holding SA	Commercial Bank	Netherlands	1,799.4	(2006)
	PKB Privatbank AG	Commercial Bank	Luxembourg	1,126.0	(2003)
	Rosbank (Switzerland) SA	Commercial Bank	Russian Federation	n 359.0	(2006)
	Rothschild Bank AG	Commercial Bank	Netherlands	741.7	(2006)

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
	Russische Kommerzial Bank AG-Russian	Commercial Bank	Russian Federation	1,174.7	(2005)
SWITZERLANI	Russische, Blass & Cie AG	Commercial Bank	USA	840.0	(2006)
	Skandifinanz Bank AG	Commercial Bank	Luxembourg	534.0	(2005)
(39)	SLB Commercial Bank	Commercial Bank	Israel	217.8	(2005)
	United Bank Ltd. (Zurich)-United Bank	Commercial Bank	Pakistan	28.2	(2006)
	ABN AMRO Bank (Chile)	Commercial Bank	Netherlands	923.5	(2006)
	Banco de la Nacion Argentina	Commercial Bank	Argentina	30.9	(2005)
CHILE	Banco GNB Sudameris	Commercial Bank	Colombia	268.5	(2006)
	Banco Itau Chile	Commercial Bank	Brazil	3,329.5	(2006)
(7)	Banco Santander - Chile	Commercial Bank	Spain	8,041.2	(2004)
	Bank of Tokyo - Mitsubishi UFJ	Commercial Bank	Japan	142.4	(2006)
	JP Morgan Chase Bank	Commercial Bank	USA	623.3	(2003)
COLOMBIA	Banco GNB Sudameris SA	Commercial Bank	Israel Federation	1,648.6	(2006)
	Banco Santander Colombia SA	Commercial Bank	Spain	1,844.7	(2006)
(3)	Citibank Colombia	Commercial Bank	USA	2,351.8	(2006)
COSTA RICA	Banco Banex	Commercial Bank	United Kingdom	789.0	(2006)
	Banco Interfin S.A.	Commercial Bank	Canada	805.1	(2005)
(3)	Citibank (Costa Rica) SA	Commercial Bank	USA	101.7	(2006)
CYPRUS	Alpha Bank Cyprus Limited	Commercial Bank	Greece	2,917.8	(2005)
(2)	Cyprus Turkish Cooperative Central	Cooperative Bank	United Kingdom	817.4	(2005)
	BAWAG Bank CZ a.s	Commercial Bank	Austria	547.9	(2003)
	Calyon SA	Commercial Bank	France	31.9	(2005)
	Ceska Sporitelna a.s.	Commercial Bank	Austria	34,891.4	(2006)
CZECH	Ceskoslovenska Obchodni Banka - CSOB	Commercial Bank	Belgium	36,515.7	(2006)
REPUBLIC	Citibank a.s.	Commercial Bank	USA	4,931.5	(2006)
(9)	HVB Bank Czech Republic AS	Commercial Bank	Italy	6,386.5	(2004)
	Komercni Banka	Commercial Bank	France	28,624.0	(2006)
	Volksbank CZ as	Cooperative Bank	France	1,217.4	(2006)
	Zivnostenska banka, a.s.	Commercial Bank	Italy	1,988.7	(2005)
	ABN Amro Bank (Deutschland) AG	Commercial Bank	Netherlands	689.3	(2005)
	ABN Amro Holding (Deutschland) AG	Bank Holding Company	Netherlands	7,028.7	(2002)
GERMANY (39)	American Express Bank GmbH	Commercial Bank	USA	1,808.0	(2005)
	AXA Bank AG	Commercial Bank	France	875.7	(2006)
	BANK COMPANIE NORG GmbH	Commercial Bank	United Kingdom	121.2	(2005)
	Bank Melli Iran	Commercial Bank	Iran, Islamic	838.7	(2006)

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
	Bank Sepah	Commercial Bank	Iran, Islamic Republic	159.9	(2006
	Bankhaus Neelmeyer AG	Commercial Bank	Italy	1,407.2	(2006)
	Bayerische Hypo-und Vereinsbank AG	Commercial Bank	Italy	669,080.7	(2006
	CIT Industrie Bank Gmbh	Commercial Bank	United Kingdom	532.2	(2005
	Citibank Privatkunden AG & Co KGaA	Commercial Bank	USA	16,097.7	(2005
	CreditPlus Bank AG	Commercial Bank	France	1,785.9	(2006
	Crown Westfalen Bank AG	Commercial Bank	USA	1481.6	(2005
	Delbrueck Bethmann Maffei AG	Commercial Bank	Netherlands	5,481.1	(2005)
	Diskont und Kredit AG	Commercial Bank	USA	1,354.2	(2005)
	Dresdner-Cetelem Kreditbank GmbH	Commercial Bank	France	1,652.2	(2006)
	Europaisch-Iranische Handelsbank AG	Commercial Bank	Iran, Islamic Republic	1,571.7	(2005)
	Fiat Bank GmbH	Commercial Bank	Italy	1,984.2	(2006)
	GEFA Gesellschaft fuer	Commercial Bank	France	6,879.6	(2006
	HSBC Trinkaus & Burkhardt AG	Commercial Bank	United Kingdom	24,596.9	(2006
	ING-DiBa AG	Commercial Bank	Netherlands	75,495.1	(2005
	Isbank GmbH	Commercial Bank	Turkey	430.0	(2005
GERMANY	JP Morgan AG	Commercial Bank	USA	8,235.4	(2005
	KBC Bank Deutschland AG	Commercial Bank	Belgium	2,680.1	(2006
(39)	Korea Exchange Bank (Deutschland) AG	Commercial Bank	Korea Rep. of	394.0	(2006
	LHB Internationale Handelsbank AG	Commercial Bank	Slovenia	1,281.0	(2005
	Maple Bank GmbH	Commercial Bank	Netherlands	19,344.3	(2006
	MCE Bank GmbH	Commercial Bank	Japan	1,890.7	(2005
	Merck Finck & Co Privatbankiers	Commercial Bank	Netherlands	1,594.1	(2005
	MHB-Bank AG	Commercial Bank	USA	268.6	(2005
	Misr Bank - Europe GmbH	Commercial Bank	EGYPT	398.3	(2005
	Mizuho Corporate Bank (Germany) AG	Commercial Bank	Japan	2,092.0	(2005
	Mizuho Corporate Bank Ltd	Commercial Bank	Japan	825.6	(2004
	Nomura Bank (Deutschland) GmbH	Commercial Bank	Japan	109.9	(2004
	Oyak Anker Bank GmbH	Commercial Bank	Turkey	450.2	(2005
	Salzburg Muenchen Bank AG	Commercial Bank	Austria	278.1	(2005
	Santander Consumer Bank AG	Commercial Bank	Spain	21,483.3	(2006
	SEB AG	Commercial Bank	Sweden	44,677.5	(2004
	Shinhan Bank Europe GmbH	Commercial Bank	Korea Rep. of	276.4	(2006
	State Bank of India	Commercial Bank	India	1,261.1	(2006
	State Street Bank GmbH	Commercial Bank	USA	6,935.4	(2005

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
GERMANY	Toyota Kreditbank Gmbh	Commercial Bank	Japan	3,421.6	(2004)
(39)	UBS Deutschland AG	Commercial Bank	Switzerland	1,053.4	(2000)
DENMARK	Nordea Bank Danmark A/S	Commercial Bank	Sweden	85,999.9	(2004)
(3)	Salling Bank A/S	Commercial Bank	USA	277.5	(2006)
(5)	Skandinaviska Enskilda Banken A/S	Commercial Bank	Sweden	1,362.3	(2005)
DOMINICAN	Citibank NA	Commercial Bank	USA	244.4	(2006)
REPUBLIC	Republic Bank (DR) SA	Commercial Bank	Trinidad Tobago	126.2	(2006)
(3)	Scotiabank	Commercial Bank	Canada	765.2	(2006)
	Ahli United Bank of Egypt	Commercial Bank	Bahrain	706.4	(2006)
	Alexandria Commercial and Maritime	Commercial Bank	United Arab Emirates	400.2	(2006)
	Arab International Bank	Commercial Bank	Libya Arab	3,651.6	(2005)
	Bank Audi SAE	Commercial Bank	Lebanon	999.9	(2006)
EGYPT	Bank of Alexandria	Commercial Bank	Italy	5,764.5	(2006)
(10)	Barclays Bank - Egypt S.A.E.	Commercial Bank	United Kingdom	2,374.1	(2006)
	BLOM Bank Egypt SAE	Commercial Bank	Lebanon	705.2	(2005)
	Credit Agricole Egypt	Commercial Bank	France	2,763.4	(2006)
	HSBC Bank Egypt S A E	Commercial Bank	United Kingdom	3,110.1	(2006)
	Piraeus Bank Egypt SAE	Commercial Bank	Greece	980.4	(2006)
	Banco Arabe Espa SA	Commercial Bank	Libya Arab	267.4	(2004)
	Banco Caixa Geral SA	Commercial Bank	Portugal	3,275.6	(2004
	Banco de Finanzas e Inversiones - Fibanc	Commercial Bank	Italy	812.5	(2004)
	Banco Espirito Santo S.A. Sucursal en	Commercial Bank	Luxembourg	2,536.4	(2004)
SPAIN	Banco Halifax Hispania SA	Commercial Bank	United Kingdom	1,329.5	(2004)
	Banque Marocaine du Commerce Extieur	Commercial Bank	Morocco	95.6	(2004)
(11)	Barclays Bank S.A.	Commercial Bank	United Kingdom	20,366.1	(2004)
	BNP Paribas Espa SA	Commercial Bank	France	344.2	(2004)
	Citibank Espa	Commercial Bank	USA	4,245.8	(2004
	Deutsche Bank Credit	Commercial Bank	Germany	1,079.2	(2004)
	Deutsche Bank SAE	Commercial Bank	Germany	16,214.6	(2004)
	Aareal Bank France S.A.	Commercial Bank	Germany	420.3	(2005)
	ABN Amro France	Commercial Bank	Netherlands	10,773.3	(2005)
FRANCE	Banca Intesa (France) SA	Commercial Bank	Italy	1,913.8	(2005
(47)	Banco Popular France	Commercial Bank	Spain	473.0	(2003
	Banque Accord	Commercial Bank	Poland	2,206.1	(2004)
	Banque AGF	Commercial Bank	Germany	3,988.3	(2006)

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
	Banque AIG	Commercial Bank	USA	14,504.5	(2005)
	Banque Audi Saradar France SA	Commercial Bank	Lebanon	663.1	(2005)
	Banque Chaabi du Maroc	Commercial Bank	Morocco	87.4	(2003)
	Banque Chaix	Commercial Bank	United Kingdom	1,596.8	(2005)
	Banque de Neuflize OBC	Commercial Bank	Netherlands	2,073.6	(2005)
	Banque de Savoie	Commercial Bank	United Kingdom	1,068.2	(2005)
	Banque Dupuy, de Parseval	Commercial Bank	United Kingdom	963.1	(2006)
	Banque Espirito Santo et de la V ie	Commercial Bank	Luxembourg	1,601.6	(2006)
	Banque Intercontinentale Arabe BIA	Commercial Bank	Algeria	999.5	(2006)
	Banque Marze	Commercial Bank	United Kingdom	214.4	(2005)
	Banque Pelletier	Commercial Bank	United Kingdom	296.8	(2005)
	Banque Priv Quilvest	Commercial Bank	Luxembourg	71.0	(2005)
	Banque Reillon	Commercial Bank	Belgium	166.8	(2005)
	BLC Bank (France) SA	Commercial Bank	Lebanon	323.8	(2005)
	BLOM Bank France SA	Commercial Bank	Lebanon	1,469.8	(2005)
	BSI-Ifabanque SA	Commercial Bank	Italy	193.1	(2005)
FRANCE	Caisse Centrale de R scompte	Commercial Bank	Germany	3,557.6	(2005)
	Credit Suisse (France)	Commercial Bank	Switzerland	238.3	(2001)
(47)	Dexia CLF Banque	Commercial Bank	Belgium	4,984.7	(2006)
	Dexia Credit Local SA	Commercial Bank	Belgium	155,161.8	(2005)
	Dresdner Bank Gestions France	Commercial Bank	Germany	329.0	(2002)
	Fortis Banque France SA	Commercial Bank	Belgium	6,213.5	(2005)
	Fransabank (France) SA	Commercial Bank	Belgium	97.1	(2005)
	GMAC Banque SA	Commercial Bank	USA	920.6	(2006)
	Goldman Sachs Paris Inc et Cie	Commercial Bank	USA	1,188.8	(2005)
	HSBC France	Commercial Bank	United Kingdom	184,171.6	(2006)
	HSBC Hervet	Commercial Bank	United Kingdom	3,932.7	(2006)
	HSBC Private Bank France	Commercial Bank	United Kingdom	1,214.3	(2005)
	HSBC UBP	Commercial Bank	United Kingdom	2,914.5	(2006)
	JP Morgan et Cie SA	Commercial Bank	USA	683.4	(2005)
	KBL France SA	Commercial Bank	Netherlands	121.0	(2005)
	La Compagnie Financide Edmond de	Commercial Bank	Switzerland	3,073.7	(2005)
	Monte Paschi Banque S.A.	Commercial Bank	Italy	1,574.1	(2005)
	National Bank of Greece	Commercial Bank	Greece	411.8	(2001)
	State Street Banque SA	Commercial Bank	USA	447.2	(2005)

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
	Sudameris S.A.	Commercial Bank	Italy	2,418.9	(2003)
FRANCE	SwissLife banque	Commercial Bank	Switzerland	210.5	(2006)
(47)	UBS (France) SA	Commercial Bank	Switzerland	1,490.2	(2005)
	Union Tunisienne de Banques	Commercial Bank	Tunisia	322.8	(2005)
	Abbey National Treasury Services Plc	Commercial Bank	Spain	227,090.8	(2005)
	Ahli United Bank (UK) Plc	Commercial Bank	Ghana	2,619.6	(2005
	AIB Bank (CI) Limited	Commercial Bank	Ireland	2,979.4	(2005
	Alpha Bank London Limited	Commercial Bank	Greece	97,186	(2006
	Anglo-Romanian Bank Limited	Commercial Bank	Romania	738.8	(2006
	Bank Leumi (UK) Plc	Commercial Bank	Israel	2,505.9	(2006
	BNP Paribas Finance Plc	Commercial Bank	France	160.1	(2006
	Butterfield Bank (Guernsey) Limited	Commercial Bank	Bermuda	1,496.1	(2005
	Butterfield Holdings (UK) Ltd	Commercial Bank	Bermuda	1,205.2	(2005
	Cater Allen Ltd	Commercial Bank	Spain	7,361.9	(2005
	CIBC World Markets Plc	Commercial Bank	Canada	3,870.8	(2006
	CitiFinancial Europe Plc	Commercial Bank	USA	5,015.9	(200
	Clydesdale Bank Plc	Commercial Bank	Australia	54,202.4	(2006
UNITED	Credit Suisse (Guernsey) Ltd	Commercial Bank	Switzerland	4,087.3	(2003
KINGDOM	Daiwa Securities Trust and Banking	Commercial Bank	Japan	99.6	(200
	Dresdner Kleinwort Group Limited	Commercial Bank	Germany	48,018.4	(200
(41)	EFG Private Bank (Channel Islands)	Commercial Bank	Switzerland	1,693.1	(200
	EFG Private Bank Limited	Commercial Bank	Luxembourg	2,426.5	(2003
	FCE Bank Plc	Commercial Bank	USA	33,296.7	(2006
	FIBI Bank (UK) Plc	Commercial Bank	Israel	503.8	(2005
	Fortis Bank (C.I.) Limited	Commercial Bank	Belgium	1,515.6	(2005
	GE Capital Bank Limited	Commercial Bank	USA	3,512.5	(2005
	Habibsons Bank Ltd	Commercial Bank	Luxembourg	422.2	(2006
	Havin Bank Limited	Commercial Bank	Cuba	993.1	(2005
	HSBC Private Bank (Jersey) Limited	Commercial Bank	Switzerland	2,888.9	(200
	Kexim Bank (UK) Limited	Commercial Bank	Korea Rep. of	276.9	(2008
	Kleinwort Benson Private Bank Limited	Commercial Bank	Germany	2,404.6	(2005
	MBNA Europe Bank Ltd.	Commercial Bank	USA	25,714.2	(2005
	National Bank of Egypt (UK) Limited	Commercial Bank	Egypt	2,318.3	(2006
	National Bank of Kuwait (International)	Commercial Bank	Kuwait	1,773.9	(2005

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
	Nomura International Plc	Bank Holding Company	Japan	122,199.0	(2006)
	Northern Bank Limited	Commercial Bank	Denmark	11,205.7	(2006)
UNITED	Private Financial Holdings Limited	Bank Holding Company	Switzerland	1,928.1	(2003)
	Riggs Bank Europe Limited	Commercial Bank	USA	101.0	(2004)
KINGDOM	Sabanci Bank Limited	Commercial Bank	Turkey	1,205.2	(2005)
(41)	SG Hambros Bank Limited	Commercial Bank	France	1,692.3	(2005)
	Turkish Bank (UK) Limited	Commercial Bank	Cyprus	255.6	(2006)
_	VTB Bank Europe Plc	Commercial Bank	Russian Federation	2,543.1	(2005)
	Egnatia Bank SA	Commercial Bank	Cyprus	3,868.6	(2004)
	Emporiki Bank of Greece SA	Commercial Bank	France	24,838.9	(2004)
	Ergobank SA	Commercial Bank	France	6,583.3	(2004)
GREECE	General Bank of Greece SA	Commercial Bank	France	4,746.1	(2004)
	Ionian and Popular Bank of Greece	Commercial Bank	France	6,652.2	(2004)
(9)	Laiki Bank (Hellas) SA	Commercial Bank	United Kingdom	2,490.5	(2003)
	Macedonia Thrace Bank SA	Commercial Bank	United Kingdom	2,536.2	(2003)
	Marfin Bank	Commercial Bank	Cyprus	962.1	(2004)
	National Bank of Greece SA	Commercial Bank	USA	65,792.3	(2004)
GUATEMALA	Citibank NA	Commercial Bank	USA	118.3	(2003)
(2)	Lloyds TSB Bank Plc	Commercial Bank	United Kingdom	112.8	(2003)
	BII Finance Company Ltd.	Commercial Bank	Indonesia	43.9	(2004)
	China Construction Bank (Asia) Limited	Commercial Bank	China	503.4	(2004)
	CITIC International Financial Holdings	Bank Holding Company	Spain	10,751.7	(2004)
	DBS Bank (Hong Kong) Limited	Commercial Bank	Singapore	24,026.5	(2005)
HONG KONG	Fubon Bank (Hong Kong) Limited	Commercial Bank	Taiwan	6,424.2	(2005)
(10)	Hongkong and Shanghai Banking	Commercial Bank	Netherlands	316,369.5	(2004)
	Indover Bank (Asia) Limited	Commercial Bank	Netherlands	228.2	(2004)
	Industrial and Commercial Bank of China	Commercial Bank	China	14,885.4	(2005)
	Public Bank (Hong Kong) Limited	Commercial Bank	Bermuda	1,845.9	(2004)
	Shanghai Commercial Bank Ltd	Commercial Bank	Taiwan	9,802.2	(2004)
HONDURAS	Banco de Honduras, SA	Commercial Bank	USA	111.6	(2006)
(2)	Banco Grupo el Ahorro Hondureno	Commercial Bank	United Kingdom	902.0	(2006)
CROATIA	Erste & Steierm kische Bank dd	Commercial Bank	Austria	6,397.4	(2006)
	Medimurska banka dd	Commercial Bank	Italy	425.2	(2006)
(7)	Privredna Banka Zagreb	Commercial Bank	Italy	11,109.6	(2006)

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
	Raiffeisenbank Austria d.d., Zagreb	Commercial Bank	Austria	6,046.7	(2006)
CROATIA	Slavonska Banka dd, Osijek	Commercial Bank	Austria	1,147.1	(2005)
(7)	Splitska Banka dd	Commercial Bank	France	3,747.9	(2005)
	Zagrebacka Banka dd	Commercial Bank	Italy	14,305.5	(2006)
	BNP Paribas Hungaria Bank Rt.	Commercial Bank	France	741.6	(2005)
	Budapest Hitel Fejleszi Bank	Commercial Bank	USA	1,178.5	(2000)
	Calyon Bank Hungary-Calyon Bank	Commercial Bank	France	804.4	(2005)
	Citibank Zrt	Commercial Bank	USA	2,148.2	(2005)
	Commerzbank (Budapest) Rt	Commercial Bank	Germany	1,113.0	(2006)
HUNGARY	Erste Bank Hungary Nyrt	Commercial Bank	Austria	6,759.2	(2005)
	Inter-Europa Bank Nyrt	Commercial Bank	Italy	1,139.4	(2005)
(13)	K&H Bank-Kereskedelmi es Hitelbank	Commercial Bank	Belgium	11,235.9	(2006)
	KDB Bank (Hungary) Ltd	Commercial Bank	Korea Rep. of	373.2	(2005)
	MKB Bank Nyrt	Commercial Bank	Germany	10,422.6	(2006)
	Raiffeisen Bank Zrt	Commercial Bank	Austria	3,993.8	(2003)
	UniCredit Bank Hungary Zrt	Commercial Bank	Italy	6,965.3	(2006)
	WestLB Hungaria Bank Rt	Commercial Bank	Germany	264.2	(2006)
	Bank BNP Paribas Indonesia	Commercial Bank	France	126.1	(2005)
	Bank Central Asia	Commercial Bank	Mauritius	19,600.7	(2006)
	Bank Chinatrust Indonesia	Commercial Bank	Taiwan	443.3	(2006)
	Bank Commonwealth	Commercial Bank	Australia	554.0	(2005)
	Bank DBS Indonesia	Commercial Bank	Singapore	1,352.6	(2006)
	Bank Haga	Commercial Bank	Netherlands	310.3	(2005)
INDONESIA	Bank Hagakita	Commercial Bank	Netherlands	93.2	(2005)
(14)	Bank KEB Indonesia PT	Commercial Bank	Korea Rep. of	238.6	(2005)
	Bank Lippo Tbk.	Commercial Bank	Netherlands	3,698.2	(2006)
	Bank Nisp	Commercial Bank	Singapore	2,683.6	(2006)
	Bank Sumitomo Mitsui Indonesia	Commercial Bank	Japan	592.8	(2006)
	PT Bank Mizuho Indonesia	Commercial Bank	Japan	689.9	(2005)
	PT Bank Niaga Tbk	Commercial Bank	Malaysia	5,160.1	(2006)
	PT Bank Resona Perdania	Commercial Bank	Japan	392.5	(2003)
	Bank of Scotland (Ireland) Limited	Commercial Bank	United Kingdom	22,708.5	(2004)
IRELAND	Bear Stearns Bank Plc	Commercial Bank	Germany	5,960.3	
(8)	Helaba Dublin - Landesbank Hessen	Commercial Bank	Germany	4,666.7	(2005)
	IIB Bank Plc	Commercial Bank	Belgium	28,908.9	(2006)

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
	LBBW Bank Ireland plc	Commercial Bank	Germany	9,096.7	(2005)
IRELAND	Naspa Dublin	Commercial Bank	Germany	5,090.7	(2006)
(8)	National Irish Bank limited	Commercial Bank	Denmark	7,527.0	(2005)
	WestLB (Ireland) Plc	Commercial Bank	Denmark	3,430.7	(2005)
INDIA	Development Credit Bank Limited	Commercial Bank	Switzerland	838.9	(2006)
(2)	Saraswat Co-Operative Bank	Commercial Bank	United Kingdom	1,746.9	(2006)
	2S Banca SpA	Commercial Bank	France	6,989.6	(2004)
	Banca Antonveneta-Banca Antoniana	Commercial Bank	Netherlands	61,861.4	(2004)
	Banca Nazionale del Lavoro SpA - BNL	Commercial Bank	France	106,358.4	(2004)
	Banca Popolare FriulAdria SpA	Commercial Bank	France	5,694.5	(2004)
ITALY	Cassa di Risparmio di Parma e Piacenza	Savings Bank	France	19,929.3	(2004)
(10)	Cassa Lombarda SpA	Commercial Bank	Switzerland	551.0	(2005)
	Cassa Per Il Credito Alle Imprese	Commercial Bank	France	895.4	(2005)
	Deutsche Bank SpA	Commercial Bank	Germany	21,985.0	(2005)
	Hypo Alpe-Adria-Bank Italia Spa	Commercial Bank	Austria	3,945.2	(2005)
	Rasbank SpA	Commercial Bank	Germany	5,635.3	(2004)
	Barclays Bank of Kenya Ltd	Commercial Bank	United Kingdom	1,700.7	(2006)
KENYA	Diamond Trust Bank Kenya Limited	Commercial Bank	Belgium	313.2	(2006)
(4)	Stanbic Bank Kenya Limited	Commercial Bank	South Africa	372.1	(2006)
	Standard Chartered Bank Kenya	Commercial Bank	United Kingdom	1,167.4	(2006)
KOREA REP.	Korea Exchange Bank	Commercial Bank	Belgium	76,879.4	(2006)
OF (2)	Standard Chartered First Bank Korea	Commercial Bank	United Kingdom	61,511.7	(2006)
	ABN Amro Bank (Luxembourg) SA	Commercial Bank	Netherlands	7,825.8	(2005)
	Alcor Bank Luxembourg SA	Commercial Bank	France	190.5	(2003)
	Bank of China (Luxembourg) SA	Commercial Bank	China	119.2	(2005)
	Bank Sal. Oppenheim jr. & Cie	Commercial Bank	Germany	1,065.7	(2006)
	Bank Sarasin Europe S.A.	Commercial Bank	Switzerland	833.2	(2005)
LUXEMBOUR	Banque BCP SA	Commercial Bank	Portugal	177.1	(2000)
	Banque Carnegie Luxembourg S.A.	Commercial Bank	Sweden	566.2	(2006)
(65)	Banque de Luxembourg SA	Commercial Bank	France	16,780.6	(2006)
	Banque Degroof Luxembourg SA	Commercial Bank	Belgium	2,292.0	(2006)
	Banque et Caisse d'Epargne de l'Etat	Savings Bank	Luxembourg	53,842.8	(2006)
	Banque Invik S.A.	Commercial Bank	Sweden	794.2	(2006)
	Banque LBLux SA	Commercial Bank	Germany	18,290.0	(2006)
	Banque Transatlantique Luxembourg SA	Commercial Bank	France	187.0	(2004)

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
	BHF-Bank International	Commercial Bank	Germany	5,418.0	(2005)
	Capitalia Luxembourg SA	Commercial Bank	Italy	1,726.7	(2004)
	Commerzbank International SA	Commercial Bank	Germany	14,691.7	(2006)
	Corner Banque (Luxembourg), SA	Commercial Bank	Switzerland	907.9	(2005)
	Credem International (Lux) SA	Commercial Bank	Italy	460.9	(2005)
	Credit Suisse (Luxembourg) SA	Commercial Bank	Switzerland	2,345.1	(2005)
	Danske Bank International SA	Commercial Bank	Denmark	6,713.0	(2006)
	DekaBank Deutsche Girozentrale	Commercial Bank	Germany	11,100.0	(2005)
	Deutsche Bank Luxembourg SA	Commercial Bank	Germany	85,122.9	(2006)
	Deutsche Postbank International SA	Commercial Bank	Germany	22,955.1	(2006)
	Dexia Banque Internationale	Commercial Bank	Belgium	77,525.6	(2005)
	DnB NOR Luxembourg SA	Commercial Bank	Norway	885.0	(2005)
	Dresdner Bank Luxembourg SA	Commercial Bank	Germany	14,859.1	(2006)
	DZ BANK International S.A.	Commercial Bank	Germany	20,005.4	(2006)
	EFG Private Bank (Luxembourg) SA	Commercial Bank	Greece	1,717.5	(2005)
	EUROHYPO Eurosche Hypothekenbank	Commercial Bank	Germany	33,969.6	(2006)
LUXEMBOUF	Fortis Banque Luxembourg SA	Commercial Bank	Belgium	61,762.1	(2006)
	Hauck & Aufhser Banquiers Luxembourg	Commercial Bank	Germany	313.8	(2005)
(65)	HSBC Private Bank (Luxembourg) S.A.	Commercial Bank	United Kingdom	2,361.4	(2005)
	HSBC Republic Holdings (Luxembourg)	Bank Holding Company	United Kingdom	20,812.6	(2000)
	HSBC Trinkaus & Burkhardt	Commercial Bank	United Kingdom	2,843.0	(2006)
	HSH Nordbank Private Banking SA	Commercial Bank	Germany	1,152.2	(2005)
	HVB Luxembourg-HVB Banque	Commercial Bank	Italy	42,633.5	(2006)
	IKB International SA	Commercial Bank	Germany	10,558.8	(2006)
	ING Luxembourg	Commercial Bank	Belgium	12,635.5	(2005)
	Kredietbank S.A. Luxembourgeoise KBL	Commercial Bank	Netherlands	28,551.2	(2005)
	Lampebank International SA	Commercial Bank	Germany	597.2	(2003)
	Landesbank Berlin International SA	Commercial Bank	Germany	6,872.0	(2006)
	LRI Landesbank Rheinland-Pfalz	Commercial Bank	Germany	18,543.0	(2006)
	M.M. Warburg & CO Luxembourg S.A.	Commercial Bank	Germany	558.0	(2006)
	Mitsubishi UFJ Global Custody SA	Commercial Bank	Japan	1,360.9	(2005)
	Mizuho Trust and Banking (Luxembourg)	Commercial Bank	Japan	527.1	(2005)
	Natixis (Luxembourg) S.A.	Commercial Bank	France	454.9	(2005)
	Natixis Private Banking Luxembourg SA	Commercial Bank	France	855.4	(2005)
	Norddeutsche Landesbank Luxembourg	Commercial Bank	Germany	30,378.5	(2006)

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
	Nordea Bank S.A.	Commercial Bank	Sweden	3834.7	(2005)
	Pictet & Cie (Europe) SA	Commercial Bank	Switzerland	458.7	(2000)
	SanPaolo Bank S.A.	Commercial Bank	Italy	8,247.4	(2005)
	Soci Europnne de Banque SA	Commercial Bank	France	47,941.4	(2006)
	Sumitomo Trust & Banking	Commercial Bank	Japan	232.7	(2005)
	Svenska Handelsbanken S.A.	Commercial Bank	Sweden	1,236.3	(2006)
LUXEMBOUR	Swedbank SA	Commercial Bank	Sweden	472.5	(2005)
	UBS (Luxembourg) SA	Commercial Bank	Switzerland	14,388.0	(2005)
(65)	Unibanco - Uniao de Bancos Brasileiros	Commercial Bank	Cayman Islands	231.0	(2006)
	Union Bancaire Privee (Luxembourg) SA	Commercial Bank	Switzerland	861.5	(2001)
	Van Lanschot Bankiers (Luxembourg) SA	Commercial Bank	Netherlands	269.1	(2002)
	Verwaltungsgesellschaft Val Ste Croix	Commercial Bank	Netherlands	313.3	(2003)
	VP Bank (Luxembourg) SA	Commercial Bank	Liechtenstein	959.4	(2005)
	WestLB International SA	Commercial Bank	Germany	11,990.4	(2005)
	WGZ Bank Luxembourg SA	Commercial Bank	Germany	4,453.6	(2006)
	AS DnB NORD Banka	Commercial Bank	Norway	2,445.7	(2006)
	Hansabanka	Commercial Bank	Sweden	7,103.5	(2006)
	Latvijas KrajBanka	Commercial Bank	Lithuania	749.6	(2006)
	Latvijas Tirdzniecibas Banka-Latvian	Commercial Bank	Russian Federation	513.8	(2006)
LATVIA	Multibanka	Commercial Bank	<b>Russian Federation</b>	66.8	(2006)
(9)	Norvik Banka	Commercial Bank	Iceland	568.7	(2006)
	Sampo Banka	Commercial Bank	Denmark	256.9	(2006)
	SEB Latvijas Unibanka	Commercial Bank	Sweden	4,714.9	(2006)
	UniCredit Bank AS	Commercial Bank	Austria	678.2	(2006)
	Banque de Gestion Edmond de Rothschild	Commercial Bank	Switzerland	691.0	(2005)
	Banque J Safra (Monaco) SA	Commercial Bank	Switzerland	1,133.0	(2003)
MONACO	Banque Monasque de Gestion	Commercial Bank	Switzerland	246.4	(2005)
(6)	Compagnie Monasque de Banque	Commercial Bank	Italy	2,344.5	(2005)
	Credit Foncier de Monaco	Commercial Bank	France	2,678.5	(2005)
	UBS (Monaco) S.A.	Commercial Bank	Switzerland	1,892.6	(2005)
	Banco Comercial de Macau SA	Commercial Bank	Hong Kong	1,079.9	(2005)
	Banco Espirito Santo do Oriente SA	Commercial Bank	Luxembourg	92.2	(2005)
MACAU	Banco Weng Hang S.A.	Commercial Bank	Hong Kong	1,654.5	(2005)
(6)	China Construction Bank (Macau)	Commercial Bank	Hong Kong	321.8	(2005)
	Luso International Banking Limited	Commercial Bank	China	1,883.8	(2006)
	Tai Fung Bank Ltd-Banco Tai Fung	Commercial Bank	China	3541.2	(2005)

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
	Banco del Bajio	Commercial Bank	Spain	4,522.2	(2006)
	Banco Santander SA	Commercial Bank	Spain	15,524.1	(2004)
MEXICO	Bank of America (Mexico)	Commercial Bank	USA	1,416.0	(2005)
(7)	Bank of Tokyo - Mitsubishi UFJ (Mexico)	Commercial Bank	Japan	242.6	(2004)
	BBVA Bancomer S.A.	Commercial Bank	Spain	48,807.3	(2004)
	BBVA Bancomer Servicios	Commercial Bank	Spain	380.9	(2004)
	HSBC Mexico, SA	Commercial Bank	United Kingdom	18,005.8	(2004)
	ABN AMRO Bank Berhad	Commercial Bank	Netherlands	1,236.4	(2006)
	Bangkok Bank Berhad	Commercial Bank	Thailand	321.7	(2006)
	Bank of America Malaysia Berhad	Commercial Bank	USA	415.3	(2006)
	Bank of Nova Scotia Berhad	Commercial Bank	Canda	829.6	(2006)
	Bank of Tokyo-Mitsubishi UFJ (Malaysia)	Commercial Bank	Japan	1,198.4	(2005)
MALAYSIA	Citibank Berhad	Commercial Bank	USA	10,835.6	(2006)
(12)	Deutsche Bank (Malaysia) Bhd.	Commercial Bank	Germany	1,423.7	(2005)
	HSBC Bank Malaysia Berhad	Commercial Bank	United Kingdom	11,610.6	(2006)
	JP Morgan Chase Bank Berhad	Commercial Bank	USA	598.8	(2005)
	OCBC Bank (Malaysia) Berhad	Commercial Bank	Singapore	10,392.2	(2006)
	Standard Chartered Bank Malaysia	Commercial Bank	United Kingdom	11,079.8	(2006)
	United Overseas Bank (Malaysia) Bhd.	Commercial Bank	Singapore	9,055.2	(2006)
	Commerzbank (Nederland) NV	Commercial Bank	Germany	3,584.2	(2004)
	Fortis Bank Nederland (Holding) N.V.	Commercial Bank	Belgium	214,901.4	(2004)
	GarantiBank International NV	Commercial Bank	Turkey	3,455.6	(2006)
NETHERLAND	SGWK Bank N.V	Commercial Bank	United Kingdom	72.9	(2005)
(8)	Indonesische Overzeese Bank NV -	Commercial Bank	Indonesia	984.0	(2005)
	KBC Bank Nederland NV	Commercial Bank	Belgium	1,261.7	(2005)
	Mizuho Corporate Bank Nederland NV	Commercial Bank	Japan	2,071.1	(2005)
	TD Waterhouse Bank NV	Commercial Bank	Canda	7,595.9	(2006)
NODWAN	Fokus Bank ASA	Commercial Bank	Denmar	14,541.6	(2005)
NORWAY	Glitnir Bank ASA	Commercial Bank	Iceland	910.9	(2006)
(3)	Nordea Bank Norge ASA	Commercial Bank	Sweden	43,874.8	(2004)
	Banco Bilbao Vizcaya Argentaria	Commercial Bank	Spain	900.6	(2004)
PANAMA	Banco de Occidente (Panama) S.A	Commercial Bank	Colombia	293.5	(2006)
(10)	Banco Santander (Panama) SA	Commercial Bank	Spain	79.7	(2005)
	Bancolombia (Panama) SA	Commercial Bank	Colombia	977.6	(2005)

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
	Bank Leumi le Israel b.m.	Commercial Bank	Israel Federation	97.4	(2004)
	Bank of Nova Scotia - Scotiabank	Commercial Bank	Canada	408.6	(2004)
PANAMA	BNP Paribas	Commercial Bank	France	1,792.0	(2005)
(10)	Dresdner Bank Lateinamerika AG	Commercial Bank	Germany	16.1	(2005)
	Lloyds TSB Bank Plc	Commercial Bank	United Kingdom	241.3	(2003)
	Popular Bank Ltd Inc	Commercial Bank	Dominican Republic	392.7	(2005)
	Banco de Credito del Peru	Commercial Bank	Bermuda	8,915.9	(2006)
	Banco del Trabajo	Commercial Bank	Panama	418.7	(2006)
PERU	Banco Financiero del Peru	Commercial Bank	Ecuador	710.8	(2006)
(6)	Banco Interamericano de Finanzas SA -	Commercial Bank	Uruguay	795.9	(2006)
	Banco Standard Chartered	Commercial Bank	United Kingdom	53.7	(2004)
	Scotiabank Peru SAA	Commercial Bank	Canada	4,150.7	(2006)
PHILIPPINES	Chinatrust (Philippines) Commercial	Commercial Bank	Taiwan	433.2	(2005)
(2)	United Overseas Bank Philippines	Commercial Bank	Singapore	274.6	(2004)
	ABN Amro Bank (Polska) SA	Commercial Bank	Netherlands	1,270.5	(2006)
	BNP Paribas Bank (Polska) SA	Commercial Bank	France	1,042.3	(2004)
	BRE Bank SA	Commercial Bank	Germany	10,046.2	(2004)
	Calyon Bank Polska SA.	Commercial Bank	France	552.9	(2005)
	Deutsche Bank PBC SA	Commercial Bank	Germany	1,437.8	(2005)
POLAND	Deutsche Bank Polska S.A.	Commercial Bank	Germany	1,898.9	(2005)
	DZ Bank Polska SA	Commercial Bank	Germany	595.4	(2005)
(13)	Fortis Bank Polska SA	Commercial Bank	Belgium	3,592.1	(2006)
	ING Bank Slaski S.A.	Commercial Bank	Netherlands	11,718.8	(2004)
	Kredyt Bank SA	Commercial Bank	Belgium	6,288.3	(2003)
	Nordea Bank Polska SA	Commercial Bank	Sweden	1,709.7	(2004)
	Raiffeisen Bank Polska SA	Commercial Bank	Austria	3,759.8	(2004)
	WestLB Bank Polska SA	Commercial Bank	Germany	742.1	(2005)
	Banco Bilbao Vizcaya Argentaria	Commercial Bank	Spain	5,287.7	(2004)
	Banco Borges & Irmao, SA	Commercial Bank	Brazil	5,304.2	(2003)
	Banco Popular Portugal SA	Savings Bank	Spain	6,129.2	(2003)
PORTUGAL	Barclays Bank Plc	Commercial Bank	United Kingdom	2,029.0	(2001)
(7)	BNP Paribas	Commercial Bank	France	877.6	(2001)
	San Paolo IMI Bank (International) SA	Commercial Bank	Luxembourg	1,697.9	(2005)
	Santander Totta SGPS	Bank Holding Company	Spain	39,849.6	(2004)

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
	Banco do Brasil SA	Commercial Bank	Brazil	109.2	(2006)
PARAGUAY	Interbanco SA	Commercial Bank	Brazil	508.0	(2006)
(4)	Lloyds TSB Bank Plc	Commercial Bank	United Kingdom	198.8	(2006)
	Sudameris Bank SAEC	Commercial Bank	Ireland	203.4	(2006)
RUSSIAN FEDERATION(1)	International Moscow Bank - IMB	Commercial Bank	Austria	9,376.7	(2006)
SINGAPORE	CIBC Asia Limited	Commercial Bank	Canada	187.2	(2005)
(2)	ING Asia Private Bank Ltd	Commercial Bank	Netherlands	2,656.5	(2004)
	Bank Austria Creditanstalt d.d. Ljubljana	Commercial Bank	Austria	2,228.4	(2005)
SLOVENIA	Factor Banka d.d.	Commercial Bank	Netherlands	692.3	(2006)
(4)	Raiffeisen Krekova Banka dd	Commercial Bank	Austria	910.5	(2004)
	Volksbank-Ljudska Banka - d.d	Commercial Bank	Austria	488.6	(2005)
	Citibank (Slovakia) a.s.	Commercial Bank	USA	911.2	(2005)
	Dexia banka Slovensko a.s.	Commercial Bank	Belgium	2,090.0	(2006)
	Komercni Banka Bratislava a.s.	Commercial Bank	France	216.3	(2006
SLOVAKIA	Ludova Banka, as	Commercial Bank	Austria	1,003.3	(2005)
	OTP Banka Slovensko, as	Commercial Bank	Hungary	1,718.5	(2006)
(9)	Slovak Savings Bank-Slovenska	Commercial Bank	Austria	11,350.6	(2006)
	Tatra Banka a.s.	Commercial Bank	Austria	4,154.1	(2003)
	UniCredit Bank Slovakia a.s.	Commercial Bank	Italy	1,909.5	(2006)
	Vseobecna Uverova Banka a.s.	Commercial Bank	Luxembourg	9,181.5	(2006)
THAILAND	Standard Chartered Bank (Thai) Public	Commercial Bank	United Kingdom	5,154.4	(2006)
(2)	United Overseas Bank (Thai) PCL	Commercial Bank	Singapore	5,219.3	(2006)
	Arab Tunisian Bank	Commercial Bank	Jordan	1,666.8	(2006)
TUNISIA	Attijari Bank	Commercial Bank	Spain	1,702.0	(2005)
	North Africa International Bank - NAIB	Commercial Bank	Libya Arab	176.7	(2005)
(5)	Union Bancaire pour le Commerce et	Commercial Bank	France	1,055.4	(2006)
	Union Internationale de Banques	Commercial Bank	France	1,402.0	(2004)
TAIWAN (1)	Hsinchu International Bank	Commercial Bank	United Kingdom	13,154.9	(2006)
UKRAINE	Calyon Bank Ukraine	Commercial Bank	France	187.8	(2005)
(2)	Raiffeisen Bank Aval	Commercial Bank	Austria	3,706.0	(2005)
	Bank of Africa (Uganda) Ltd	Commercial Bank	Belgium	48.4	(2006)
UGANDA	Bank of Baroda (Uganda) Limited	Commercial Bank	India	111.6	(2006)
	Barclays Bank of Uganda Limited	Commercial Bank	United Kingdom	278.5	(2006)
(6)	Stanbic Bank Uganda Ltd	Commercial Bank	South America	534.9	(2005)
	Standard Chartered Bank Uganda	Commercial Bank	Netherlands	383.7	(2005)

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
	Banco Bilbao Vizcaya Argentaria Puerto	Commercial Bank	Spain	7,043.3	(2005)
	BancWest Corporation	Bank Holding Company	France	67,313.4	(2006)
	Bank Leumi Le-Israel Corporation	Bank Holding Company	Israel Federation	5,772.7	(2006
	Bank Leumi USA	Commercial Bank	Israel Federation	5,761.0	(2006
	Bank of the West	Commercial Bank	France	55,642.9	(2006
	Bank of Tokyo - Mitsubishi UFJ Trust	Commercial Bank	Japan	4,048.6	(2006
	BNP Paribas Securities Corp	Bank Holding &	France	135,115.3	(2006
	Chinese American Bank	Commercial Bank	Taiwan	333.0	(2006
	Citizens Bank of Rhode Island	Commercial Bank	United Kingdom	13,877.6	(2006
	Citizens Financial Group Inc.	Bank Holding Company	United Kingdom	160,900.9	(2006
	Commercebank NA	Commercial Bank	Venezuela	4,898.7	(2006
	Deutsche Bank Trust Company Americas	Commercial Bank	Germany	39,737.0	(2006
	Deutsche Bank Trust Corporation	Commercial Bank	Germany	57,358.0	(2005
	Far East National Bank	Commercial Bank	Taiwan	1,847.8	(2006
	First Hawaiian Bank	Commercial Bank	France	12,002.6	(2006
	HSBC Finance Corporation	Bank Holding Company	United Kingdom	179,459.0	(2006
USA	HSBC USA Inc.	Bank Holding Company	United Kingdom	168,957.0	(2006
	Interaudi Bank	Commercial Bank	Switzerland	1,215.9	(2006
(35)	Israel Discount Bank of New York	Commercial Bank	Israel Federation	8,823.0	(2006
	Laredo National Bancshares, Inc.	Commercial Bank	Spain	4,478.9	(2006
	Laredo National Bank	Commercial Bank	Spain	4,467.9	(2006
	Manufacturers Bank	Commercial Bank	Japan	1,782.8	(2006
	Mitsubishi UFJ Trust & Banking	Bank Holding Company	Japan	222.7	(2006
	Mizuho Corporate Bank (USA)	Commercial Bank	Japan	3,678.5	(2006
	Mizuho Corporate Bank of California	Commercial Bank	Japan	772.3	(2006
	RBC Centura Bank	Commercial Bank	Canada	23,135.6	(2006
	Santander BanCorp	Bank Holding Company	Spain	8,271.9	(2005
	Scotiabank de Puerto Rico	Commercial Bank	Canada	1,550.9	(2006
	TD Bank USA NA	Commercial Bank	Canada	15,429.6	(2006
	TD Banknorth Inc	Bank Holding Company	Canada	40,019.9	(2006
	TD BankNorth National Association	Commercial Bank	Canada	39,581.7	(2006
	Texas Regional Bancshares, Inc	Commercial Bank	Spain	8,574.1	(2006
	Union Bank of California NA	Commercial Bank	Japan	51,969.1	(2006
	Union National Financial Corporation	Bank Holding Company	Japan	462.2	(2005
	UnionBanCal Corporation	Commercial Bank	Japan	52619.6	(2006

Country (# of Bank)	Bank Name	Specialization	Home Country	Total Assets (US Dollars in millions)	(Year)
VENEZUELA	Banco de Venezuela, S.A.C.A.	Commercial Bank	Spain	8,968.2	(2006)
	Corp Banca CA Banco Universal	Commercial Bank	Netherlands	1,119.5	(2006)
(3)	Venezolano de Credito SA, Banco	Commercial Bank	Germany	1,385.7	(2006)
	Absa Bank Ltd	Commercial Bank	United Kingdom	49,605.3	(2005)
	ABSA Group Limited	Bank Holding Company	United Kingdom	55,737.4	(2005)
	Albaraka Bank Limited	Commercial Bank	BAHRAIN	179.7	(2004)
SOUTH AFRICA	A Habib Overseas Bank Limited	Commercial Bank	Luxembourg	60.8	(2004)
(8)	HBZ Bank Limited	Commercial Bank	Switzerland	172.4	(2006)
	Mercantile Bank Holdings Limited	Commercial Bank	483.3	(2004)	
	Nedbank Group Limited	Commercial Bank	Commercial Bank United Kingdom		(2004)
	South African Bank of Athens Limited	Commercial Bank	Greece	108.5	(2004)
	Barclays Bank of Zimbabwe Ltd.	Commercial Bank	United Kingdom	685.3	(2003)
ZIMBABWE	Stanbic Bank Zimbabwe Limited	Commercial Bank	United Kingdom	134.4	(2005)
(3)	Standard Chartered Bank Zimbabwe Ltd	Commercial Bank	Netherlands	189.5	(2005)

#### Appendix 2 Bank Performance, Banking Concentration, Governance, Country Risk and Bank Regulation and Supervision by Country

	Bank	Perform	ance			Banki	ng Conc	entration	Measure	es		Obser	vations
Country	NIM	ROA	ROE	P-R H-Statistics	Lerner Index	CR4 Assets	CR4 Loans	CR4 Deposits	HHI Assets	HHI Loans	HHI Deposits	Foreign Banks	Domestic Banks
ARGENTINA	5.624329	-0.83333	-4.16561	0.783637	—	0.000001	0.000001	0.000001	0.070433	0.069542	0.07918	203	560
AUSTRALIA	2.210584	0.848103	13.35053	0.352994	_	0.000002	0.000001	0.000001	0.1325	0.130895	0.154228	70	250
AUSTRIA	2.132625	0.576936	8.314127	0.508395	-0.20625	0	0.000001	0.000001	0.082822	0.076109	0.093609	80	799
BANGLADESH	2.019625	0.725337	15.39171	0.638416	—	0.000139	0.000227	0.000302	0.10739	0.109971	0.113618	2	271
BELGIUM	2.387179	0.800487	8.925406	0.302812	0.034584	0	0.000011	0.00158	0.106453	0.111124	0.111025	229	451
BOLIVIA	5.665364	-0.10305	0.431589	0.062641	-6.11213	0.001452	0.001569	0.001447	0.114709	0.113806	0.118894	56	95
BRAZIL	10.85307	1.965505	12.84484	0.473572	0.481635	0.000001	0.000001	0.000006	0.069705	0.092864	0.087594	183	680
BULGARIA	4.74314	2.643488	23.08415	0.06387	-1.54364	0.014684	0.012588	0.014887	0.182834	0.205636	0.185675	107	69
CANADA	2.131942	0.489236	5.263244	0.420063	—	0.000006	0.000006	0.000008	0.127639	0.120685	0.133764	172	316
CHILE	5.633582	1.100946	10.58648	0.853303	_	0.000011	0.000011	0.000008	0.096229	0.098037	0.097105	85	264
COLOMBIA	7.652532	1.279198	6.176076	0.569019	—	0.00007	0.000068	0.00005	0.063867	0.062487	0.065899	45	192
COSTA RICA	6.655725	1.983511	16.44588	0.630206	-1.53773	0.000057	0.00018	0.000007	0.152742	0.097691	0.188379	40	92
CROATIA	6.552135	1.119609	9.395786	0.391391	-1.475	0.000029	0.000022	0.000024	0.149191	0.169123	0.15212	99	183
CYPRUS	4.633514	1.021984	20.53659	0.223748		0.007152	0.008888	0.054847	0.228137	0.250245	0.236477	28	103
CZECH REPUBLIC	2.825139	0.086759	7.070326	0.061761	-0.9578	0.000041	0.00006	0.000032	0.152764	0.154622	0.159048	120	97
DENMARK	4.864987	1.248976	9.989731	0.199354	0.274619	0	0.000001	0.000001	0.116842	0.124349	0.164712	42	1,152
DOMINICAN REPUBL	9.305447	2.273659	20.94195	0.227638	—	0.008206	0.008149	0.00891	0.144219	0.143424	0.159778	42	89
EGYPT	1.763602	1.081489	12.04888	_	_	0.000035	0.00002	0.000021	0.118638	0.110782	0.123921	141	240
FRANCE	2.727892	0.56049	5.595174	0.558671	0.138418	0.000001	0.000001	0.000001	0.043456	0.038426	0.046462	604	3,269
GERMANY	2.936835	0.317058	6.001221	0.503908	0.080411	0.000001	0.000001	0.000001	0.030012	0.028911	0.027721	575	$15,\!684$
GREECE	3.394312	0.724	9.016	0.576924	_	0.000033	0.000031	0.000029	0.196008	0.171577	0.208812	97	65
GUATEMALA	7.465556	-0.80695	12.26501	0.017952	—	0.00071	0.000641	0.00063	0.071517	0.066512	0.075299	22	325
HONDURAS	8.290714	1.575429	13.81421	0.684555	_	0.002971	0.002744	0.002599	0.100885	0.102193	0.104358	29	150
HONG KONG	2.705625	1.65284	12.86208	0.394513	_	0.000001	0.000001	0.000004	0.264178	0.226598	0.245815	131	281
HUNGARY	4.720488	0.686138	10.24257	128	_	0.000062	0.000056	0.000071	0.124397	0.110946	0.141364	170	78
INDIA	3.619195	0.562661	10.45055	0.419815	_	0.000001	0.000001	0.000001	0.049161	0.060812	0.073379	28	780
INDONESIA	4.57017	-0.54637	20.84744	0.35523	0.708792	0.000003	0.000005	0.000001	0.112909	0.085278	0.109185	183	318
IRELAND	1.656755	0.64514	11.83687	0.524203	-4.55493	0.000043	0.000024	0.000164	0.174179	0.180707	0.165795	107	77
ITALY	3.775403	0.716816	6.612096	0.460063	0.023182	0.000001	0.000001	0.000001	0.038576	0.038203	0.040955	123	3,359
KENYA	7.737958	1.921392	15.03114	0.378155	_	0.000166	0.000107	0.000112	0.11007	0.11854	0.116572	58	217
KOREA REP. OF	2.722175	-0.05408	-6.4805	-0.03523	_	0.000071	0.00006	0.000062	0.089358	0.073205	0.073455	30	194
LATVIA	5.485126	0.950151	15.48793	0.692959	-0.19333	0.002982	0.003251	0.003566	0.110732	0.14991	0.110402	110	90

Appendix 2	(Continued)
------------	-------------

	Bank	Perform	ance			Banking	g Concen	tration M	Ieasures			Obser	vations
Country	NIM	ROA	ROE	P-R H-Statistics	Lerner Index	CR4 Assets	CR4 Loans	CR4 Deposits	HHI Assets	HHI Loans	HHI Deposits	Foreign Banks	Domestic Banks
LUXEMBOURG	0.940107	0.590985	11.63575	0.726354	0.569125	0.000002	0	0.000004	0.038193	0.057217	0.038874	866	367
MACAU	2.774583	1.154747	15.38657	—	—	0.044607	0.039483	0.038027	0.240795	0.197537	0.207193	74	25
MALAYSIA	2.692985	0.705597	7.081716	0.362239	0.853	0.001443	0.001305	0.001457	0.081046	0.067486	0.069624	28	39
MEXICO	5.633369	1.277234	6.806099	0.390582	0.555349	0.000032	0.000021	0.00002	0.092228	0.093216	0.096118	83	206
MONACO	1.025923	0.359154	8.119385	0.029588	_	0.027028	0.026225	0.077548	0.184721	0.219256	0.184718	78	53
NETHERLANDS	1.620751	1.293473	10.53815	0.495359	-0.14781	0.000001	0.000001	0.000001	0.176941	0.163532	0.190113	110	347
NICARAGUA	8.968416	-0.01475	19.5598	—	—	0.037774	0.039353	0.03824	0.156372	0.146306	0.155629	10	93
NORWAY	3.068977	1.380767	12.98716	0.368646	-1.13411	0.000003	0.000004	0.000005	0.114592	0.113905	0.140399	37	355
PANAMA	3.041326	1.449211	19.34308	0.446339	_	0.000037	0.000013	0.000039	0.064104	0.088216	0.053775	120	239
PARAGUAY	10.68934	1.857725	13.19455	0.660349	_	0.003772	0.003156	0.003861	0.099584	0.108998	0.101656	58	116
PERU	10.63096	1.072994	11.12952	1.039053	0.093832	0.000067	0.000075	0.000067	0.164207	0.166035	0.170755	86	81
POLAND	5.367619	0.897789	8.051071	0.905439	—	0.000005	0.000004	0.000004	0.096469	0.091343	0.101818	155	142
PORTUGAL	3.0472	0.750367	10.74873	0.703054	-0.01975	0.000008	0.000007	0.000006	0.088307	0.088629	0.090618	72	230
RUSSIAN FEDERATI	8.41727	2.900747	31.24792	0.075985	_	0.000006	0.000001	0.000005	0.162644	0.170858	0.186691	14	157
SINGAPORE	2.439141	1.155	5.029161	0.378063	—	0.006927	0.009044	0.008578	0.234158	0.172726	0.177742	26	118
SLOVAKIA	3.271515	0.548182	22.94856	-0.10214	—	0.00776	0.004371	0.007409	0.186334	0.177455	0.193812	120	12
SLOVENIA	4.772393	1.454479	9.427546	0.106301	—	0.000929	0.001171	0.00109	0.1946	0.194508	0.190216	46	122
SOUTH AFRICA	5.323366	1.520776	13.68225	0.489478	—	0.000001	0.000001	0.000001	0.089756	0.095675	0.098111	96	229
SPAIN	3.622809	0.977717	9.451293	0.358291	-0.2787	0.000001	0.000001	0.000001	0.081353	0.074114	0.078529	137	1,481
SWITZERLAND	1.904291	1.478519	8.910556	0.248846	—	0.000001	0.000001	0.000001	0.19423	0.116876	0.185887	534	2,183
TAIWAN	2.551807	0.661779	4.334643	0.232126	6.299258	0.000003	0.000007	0.000014	0.061289	0.050402	0.057811	15	492
THAILAND	2.709167	-0.39808	-16.3	0.553735	—	0.000038	0.000205	0.000132	0.131691	0.098371	0.103768	30	228
TUNISIA	3.347651	1.11253	11.26355	0.392481	0.30829	0.000302	0.000272	0.000101	0.100405	0.102007	0.112121	69	97
UGANDA	12.00718	2.5192	16.8004	_	_	0.019502	0.019406	0.021194	0.165688	0.177002	0.181716	64	66
UKRAINE	11.79809	2.969407	13.46119	0.579916	_	0.01	0.014233	0.008501	0.114469	0.137632	0.117368	22	102
UNITED KINGDOM	3.005866	1.103014	10.91965	0.490683	0.120421	0.000001	0.000001	0.000001	0.05875	0.060011	0.061667	506	1,402
USA	4.097727	1.247883	13.28842	0.294152	0.292426	0.000001	0.000001	0.000001	0.014297	0.013322	0.014281	483	11,006
VENEZUELA	17.02663	4.364146	36.30722	0.460677	0.369775	0.000143	0.000074	0.000108	0.105362	0.119722	0.108508	45	165
ZIMBABWE	17.77345	6.371354	68.6851	—	—	0.003208	0.004287	0.003694	0.117967	0.123161	0.126514	40	59
Average/Total	3.644114	0.799211	9.088284	0.921196	0.13511	0.000492	0.000632	0.001153	0.063623	0.05904	0.064868	8,033	54,089

	Macroeco	onomic Co	ondition	Count	try Risk	Governance			
Country	GDP Growth	Inflation Rate	Real Interest Rate	Legal Risk	Economic Risk	Control of Corruption	Government Effectiveness	Regulatory Quality	
ARGENTINA	3.011796	10.07244	5.798165	2.363158	3.245263	-0.318	0.036746	0.025153	
AUSTRALIA	3.803125	6.9875	2.371875	1	1.458599	1.946	1.762207	1.430329	
AUSTRIA	2.136519	5.503876	2.043231	1	1.432212	1.986	1.878239	1.446279	
BANGLADESH	5.206642	10.39114	5.332103	3	4	-0.92	-0.66726	-0.69028	
BELGIUM	2.042647	6.229412	1.970588	1.440217	1.5	1.48	1.833485	1.175567	
BOLIVIA	3.622517	25.56954	5.543046	2.321429	2.882653	-0.682	-0.27917	0.072333	
BRAZIL	2.631518	53.85868	1.89E+02	2.083765	2.976684	-0.057	-0.08631	0.245864	
BULGARIA	2.136364	4.130682	1.16E+02	2.967213	2.510246	-0.262	-0.12324	0.347635	
CANADA	3.360656	4.036885	1.97541	1	1.5	2.057	1.98527	1.398135	
CHILE	5.323782	7.318052	5.853868	1.5	1.976601	1.344	1.188672	1.379258	
COLOMBIA	2.957806	11.48101	13.84388	3	3.354167	-0.496	-0.16966	0.14264	
COSTA RICA	5.022727	12.20455	13.17424	2.018987	2.471519	0.746	0.393939	0.640101	
CROATIA	3.085106	8.042553	1.22E+02	2.48538	2.527778	-0.208	0.183692	0.107944	
CYPRUS	4.015267	4.175573	3.40458	1.113333	1.583333	0.988	1.229895	1.192842	
CZECH REPUBLIC	2.414747	2.383495	5.623711	2	2.377907	0.418	0.80184	0.939386	
DENMARK	2.340871	6.995604	1.940536	1	1.5	2.259	2.096305	1.619051	
DOMINICAN REPUBL	5.549618	14.53435	11.0687	3	3.268519	-0.453	-0.39535	-0.11822	
EGYPT	4.35958	7.107612	6.952756	3.5	2.966063	-0.29	-0.30913	-0.25978	
FRANCE	1.882778	5.7	1.691454	1	1.552774	1.463	1.566	0.970947	
GERMANY	1.392644	8.767878	1.810812	1.43827	1.56173	2.015	1.796251	1.385067	
GREECE	2.623457	10.68628	7.314815	1.97	2	0.574	0.830762	0.823429	
GUATEMALA	3.501441	9.501441	7.939481	3	2.980682	-0.707	-0.50412	-0.06339	
HONDURAS	3.541899	10.27933	16.30168	—	—	-0.776	-0.62948	-0.32836	
HONG KONG	4.041262	6.815534	2.669903	1.982301	2.045354	1.384	1.195034	1.668938	
HUNGARY	3.145161	4.697581	13.95161	1.928082	2.023973	0.645	0.835189	0.971784	
INDIA	6.483911	6.788366	6.658416	2.974702	2.895337	-0.338	-0.13698	-0.22194	
INDONESIA	4.091816	5.053892	13.17964	3.196078	3.77451	-0.885	-0.43095	-0.27484	
IRELAND	7.309783	1.394444	2.858696	1	1.5	1.687	1.696831	1.588099	
ITALY	1.379667	5.938541	3.014934	1.949754	1.550246	0.694	0.883509	0.863513	
JAPAN	1.181287	3.190733	0.25686	1.5	2.424886	1.235	1.168594	0.80327	
KAZAKHSTAN	6.757576	_	15.78788	3	2.888889	-0.977	-0.72613	-0.55774	
KENYA	2.898182	11.42909	11.32727	3.423077	3.173077	-1.004	-0.62871	-0.30036	
KOREA REP. OF	5.303571	4.8125	4.066964	1.5	2.603704	0.264	0.810848	0.582061	
LATVIA	6.18	5.452261	11.92	2.223776	2.38986	0.041	0.456864	0.901361	
LUXEMBOURG	4.201946	4.28725	2.051906	1	1.010309	1.997	2.093459	1.671787	
MACAU	6.030303	6.616162	1.515152	2	2.46875	0.45	0.663625	0.651	

	Macroeo	conomic Co	ndition	Count	ry Risk	G	overnance Inc	lex
Country	GDP Growth	Inflation Rate	Real Interest Rate	Legal Risk	Economic Risk	Control of Corruption	Government Effectiveness	Regulatory Quality
MALAYSIA	5.402985	4.059701	2.791045	2	2.684783	0.386	0.803621	0.530172
MEXICO	3.00346	5.580645	14.10727	2.5	2.661202	-0.377	0.187124	0.438628
MONACO	—	—	—	—	—	0	0.039691	0
NETHERLANDS	2.579869	3.733042	2.413567	1	1.106557	2.153	2.103981	1.727649
NICARAGUA	3.893204	6.407767	5.964286	—	_	-0.579	-0.67111	-0.1884
NIGERIA	3.9375	1.388393	21.61161	—	—	-1.22	-1.05033	-0.99858
NORWAY	3.252551	4.291777	1.890306	1	1.435381	2.175	2.05415	1.26051
PAKISTAN	4.508197	1.230769	6.967213	3.871951	3.865854	-0.884	-0.5849	-0.61571
PANAMA	4.167131	7.779944	0.855153	2.5	2.947072	-0.326	0.041809	0.593014
PARAGUAY	2.068966	19.87931	10.97126	—	—	-1.124	-0.93453	-0.41688
PERU	4.556886	24.26946	12.27545	2.5	2.977723	-0.293	-0.25544	0.35208
POLAND	4.44444	7.814815	13.14141	1.976064	2.033245	0.421	0.629244	0.677311
PORTUGAL	2.274834	6.52	3.903974	1.963576	2	1.355	1.176	1.11322
RUSSIAN FEDERATI	1.631579	10.85526	94.11243	3.393805	3.243363	-0.863	-0.45269	-0.48724
SINGAPORE	7.0625	5.013889	1.409722	1	1.653226	2.247	2.211573	1.848539
SLOVAKIA	3.712121	6.244094	7.661157	2.297619	2.383929	0.259	0.580481	0.696346
SLOVENIA	3.589286	6.517857	9.10559	2.303738	2.439252	0.902	0.926015	0.858722
SOUTH AFRICA	2.824615	7.48	7.113846	2	2.450798	0.537	0.66751	0.349544
SPAIN	2.915946	3.701642	3.627318	1.5	1.531928	1.332	1.656639	1.189909
SRI LANKA	4.836066	5.6	9.778689	—	—	-0.289	-0.34438	0.112083
SWEDEN	2.495146	5.469388	1.368932	1	1.5	2.22	2.056753	1.407403
SWITZERLAND	1.327199	3.726169	1.37799	1	1.304224	2.16	2.180333	1.509157
TAIWAN	4.621951	1.87931	7.304878	1.5	1.939189	0.69	1.053872	0.991698
THAILAND	4.286822	6.263566	3.903101	2.426667	2.713333	-0.209	0.234053	0.316368
TUNISIA	4.692771	_	3.722892	2.5	2.40625	0.141	0.529167	0.153
TURKEY	3.859649	_	79.92983	2	2.1	-0.088	-0.16105	0.486316
UGANDA	6.276923	15.08333	5.746154	3	2.602151	-0.808	-0.49644	0.037043
UKRAINE	2.016129	7.330645	1.32E+02	—	—	-0.922	-0.64222	-0.5925
UNITED KINGDOM	2.736373	2.998952	2.629979	1	1.5	2.099	1.927507	1.700973
USA	3.362956	4.850466	2.625294	1	1.5	1.72	1.827495	1.492488
VENEZUELA	2.342857	-0.95238	34.70952	3.078358	3.5	-0.89	-0.76894	-0.59155
VIETNAM	7.632184	6.308271	4.326087	3.106195	3.371681	-0.691	-0.40891	-0.55652
ZIMBABWE	-1.34343	-6.27273	1.09E+02	_	—	-0.77	-0.78787	-1.41013
Average	2.534352	6.83906	7.4978	1.481255	1.774769	1.384	1.403869	1.118665

	Bank Regulation and Supervision												
Country	Bank Capital	Ownership Restrictiveness	Basel Risk Weights	Securities Activities	Licensed/ Certified Auditor	Auditor's Report	Consolidated Accounts	Solvency Intervention	Onsite Inspection				
ARGENTINA	1	0.634	1	1	1	1	0.634	0	1				
AUSTRALIA	1	1.637	1	1	1	1	1	0.166	1.834				
AUSTRIA	1	0.629	1	1	1	1	1	1	1.388				
BANGLADESH	1	1	1	1	1	1	1	0	1				
BELGIUM	1	0.761	1	1	1	1	0.601	0	1				
BOLIVIA	1	1.347	1	1	1	0.327	1	0.663	1				
BRAZIL	1	0.271	1	1	0.358	1	0.642	0.371	2				
BULGARIA	1	1	1	1	1	1	1	0.27	2				
CANADA	1	2	1	1	1	1	0.717	0	1				
CHILE	1	1.379	1	1	1	1	1	1	1				
COLOMBIA	1	1.569	1	1	1	1	1	1	1				
COSTA RICA	1	2	0.266	1	1	1	0.734	1	1				
CYPRUS	1	1.453	1	1	1	1	0.627	0.373	1				
CZECH REPUBLIC	1	2.76	1	1	1	1	1	1	2.24				
DENMARK	1	1	1	1	1	1	0	1	1.734				
DOMINICAN REPUBL	1	3	1	1	1	1	1	1	1				
EGYPT	1	1	1	1	1	1	1	1	2				
FRANCE	1	0.211	1	1	1	1	1	0	1.375				
GERMANY	1	0.618	1	1	1	0.629	1	0.247	1.247				
GREECE	1	0.6	1	1	1	1	1	0	2				
GUATEMALA	1	1.718	1	1	1	0.632	0.641	1	1				
HONDURAS	0.667	2.333	1	1	1	0	1	1	1				
HONG KONG	1	2	1	1	1	1	1	0	1				
HUNGARY	1	1.404	1	1	1	1	1	1	2				
INDIA	1	2	1	1	1	0.317	1	0	1				
INDONESIA	1	0.627	1	1	1	1	1	1	1				
IRELAND	1	0.616	1	1	1	1	1	0	1				
ITALY	1	2	1	1	0.586	1	0	0	2.655				
JAPAN	1	1.357	1	1	0.643	1	1	1	1.69				
KAZAKHSTAN	1	2.333	1	1	1	1	1	1	1.333				
KENYA	1	1.654	1	1	1	0.654	1	1	1.346				
KOREA REP. OF	1	1.659	1	1	1	1	1	1	1.304				
LATVIA	0.664	2.329	1	1	1	1	1	0.495	1.336				
LUXEMBOURG	1	1.649	1	1	1	1	0.769	0	1				
MACAU	1	3	1	1	1	1	1	0	1.625				
MALAYSIA	1	2	1	1	1	1	1	0.674	1				

	Bank Regulation and Supervision												
Country	Bank Capital	Ownership Restrictiveness	Basel Risk Weights	Securities Activities	Licensed/ Certified Auditor	Auditor's Report	Consolidated Accounts	Solvency Intervention	Onsite Inspections				
MEXICO	1	1.164	1	1	1	1	0.59	1	1.41				
MONACO	1	0.39	1	1	1	1	1	0.571	1.857				
NETHERLANDS	1	0.594	1	1	1	1	0	0	1				
NICARAGUA	1	0.844	1	1	1	1	1	1	1				
NORWAY	1	2	1	1	1	1	0	1	1				
PAKISTAN	1	1.317	1	1	1	1	1	0.683	1				
PANAMA	1	2.595	1	1	1	1	1	0.595	1.797				
PARAGUAY	1	1	1	1	1	1	1	1	1				
PERU	1	1	1	0.703	1	1	1	1	1				
POLAND	1	0.601	1	1	1	1	1	0.383	2.782				
PORTUGAL	1	0.536	1	1	1	1	1	0	2				
RUSSIAN FEDERATI	1	0.628	1	1	1	1	0.628	1	2				
SINGAPORE	1	1	1	1	1	1	0.548	0	2.806				
SLOVAKIA	1	1	1	0.714	1	1	1	0.643	1.286				
SLOVENIA	1	1	1	1	1	1	1	1	1				
SOUTH AFRICA	1	1	1	1	1	1	0.388	0.197	1				
SPAIN	1	1	1	1	1	1	1	1	1.918				
SRI LANKA	1	1	1	1	1	0.692	1	0.308	2				
SWEDEN	1	0.613	1	1	1	0.645	0.613	0	1				
SWITZERLAND	0.717	0	1	1	1	1	1	0.283	1				
TAIWAN	1	2	1	0.635	1	0.635	1	1	1.291				
THAILAND	1	2	1	1	1	0.64	1	0	1				
TUNISIA	1	3	1	1	1	0	1	1	2				
TURKEY	1	0.067	1	1	1	1	0.067	0.067	1				
UGANDA	1	1	1	1	1	0	1	1	1				
UKRAINE	1	1	1	1	1	1	1	1	1				
UNITED KINGDOM	1	0.266	1	1	1	1	0.734	0	1.266				
USA	1	1.71	1	1	0.71	1	1	1	1				
VENEZUELA	1	1.358	0.687	1	1	1	1	1	1				
VIETNAM	1	1	1	1	1	0	1	•	1				
ZIMBABWE	1	1	1	1	1	0.2	1	1	1				
Average	0.986	1.078	0.997	0.996	0.898	0.867	0.872	0.49	1.332				

### Appendix 3

#### Bank Performance, Market Concentration, Governance Index, Country Risk and Bank Regulation and Supervision among years

	Bank Performance			erformance Banking Concentration Measures								Macroe	conomic C	ondition	<b>Country Risk</b>		Governance			Observations	
Year	NIM	ROA	ROA	P-R H-Statistics	Lerner Index	CR4 Assets	CR4 Loans	CR4 Deposits	HHI Assets	HHI Loans	HHI Deposits	GDP Growth	Inflation Rate	Real Interest Rate	Legal Risk	Economic Risk		Government Effectiveness	Regulatory Quality	Foreign Banks	Domestic Banks
1992	3.736128	0.613447	7.364236	0.469801	-0.65879	0.005651	0.005706	0.017703	0.093992	0.092701	0.097849	1.915519	8.074738	14.95987	3.25	3				337	1845
1993	3.834946	0.794541	9.463075	8.365861	-0.41692	0.001144	0.001268	0.002857	0.062442	0.06146	0.064701	0.99123	6.762382	24.09514			1.34	1.67	1.54	464	3424
1994	3.895923	0.764012	9.297826	0.523515	-0.20767	0.000441	0.000552	0.001082	0.057608	0.056537	0.05946	3.310345	6.427023	31.74446			-0.83	-0.93	-0.1	527	3834
1995	4.010235	0.823455	9.633758	0.482761	-0.09011	0.000299	0.000434	0.000796	0.055375	0.054044	0.057365	2.697016	7.458842	6.520313	1	1.5	-0.096	0.4	0.394	569	4066
1996	3.921344	0.884052	9.678466	0.486582	0.105127	0.000138	0.000206	0.000387	0.055204	0.053735	0.057434	2.532235	7.142951	4.519649	2.25	2.5	1.402489	1.586298	0.92361	594	4210
1997	3.801832	0.893087	9.359293	0.427702	0.049746	6.73E-05	0.000129	0.00018	0.055929	0.052837	0.057712	3.34876	8.014884	6.709998	1	1.5	1.403548	1.58821	0.924353	613	4239
1998	3.699571	0.586855	9.187236	0.381874	0.095709	3.67E-05	3.89E-05	0.000125	0.058625	0.053006	0.058915	2.597541	8.066569	3.387137	1.497563	1.762717	1.416524	1.343989	1.122042	611	4199
1999	3.581173	0.761592	8.573602	0.4462	0.151351	4.33E-05	5.98E-05	0.000253	0.058919	0.052798	0.05918	2.812921	7.638979	2.636939	1.497432	1.771618	1.419457	1.345754	1.123498	609	4155
2000	3.556616	0.864602	9.014115	0.406679	0.209767	3.89E-05	5.61E-05	8.81E-05	0.059879	0.052955	0.059961	3.880673	7.686039	2.85269	1.49664	1.763169	1.414672	1.455711	1.228298	607	4098
2001	3.469554	0.788273	8.532757	0.274042	0.2585	2.36E-05	3.43E-05	5.69E-05	0.060656	0.053246	0.060739	1.612603	7.20601	3.079844	1.498127	1.736448	1.414544	1.456202	1.228216	599	4031
2002	3.512839	0.635234	7.529091	0.400423	0.298734	0.000034	4.48E-05	4.65E-05	0.072386	0.064076	0.073373	1.190381	6.206704	2.75953	1.495151	1.744136	1.403151	1.408762	1.169372	593	3930
2003	3.373413	0.68397	8.062389	0.379346	0.347493	0.000098	0.000186	7.36E-05	0.07428	0.069796	0.076071	1.78356	4.60726	3.489293	1.501465	1.740626	1.384631	1.318534	1.178805	587	3766
2004	3.286326	0.884043	9.511014	0.407716	0.444265	0.000121	0.000187	8.51E-05	0.078525	0.071698	0.079645	3.05029	3.578028	3.422872	1.43278	1.842989	1.35111	1.28464	1.174624	565	3579
2005	3.330067	0.981417	10.24297	0.43741	0.579676	0.000321	0.000845	0.000969	0.077339	0.068457	0.07872	2.621099	4.211787	3.463132	1.422147	1.84837	1.314466	1.244001	1.147656	486	3142
2006	3.589085	1.216262	11.88166	0.444078	1.16559	0.002819	0.005287	0.007293	0.087655	0.076023	0.086523	3.870179	5.218257	3.527431	1.457584	1.797191	1.114372	1.271905	1.106731	272	1571
Average	3.644114	0.799211	9.088284	0.921196	0.13511	0.000492	0.000632	0.001153	0.063623	0.05904	0.064868	2.534352	6.83906	7.4978	1.481255	1.774769	1.383706	1.403869	1.118665	8,033	54,089

-		Governance			Banking Regulation and Supervision										
Year	Control of Corruption	Government Effectiveness	Regulatory Quality	Bank Capital	Ownership Restrictiveness	Basel Risk Weights	Securities Activities	Licensed/ Certified Auditor	Auditor's Report	Consolidated Accounts	Solvency Intervention	Onsite Inspections	Foreign Banks	Domestic Banks	
1992	_	_	_	—	_	_	_	—	_	_	_	_	337	1845	
1993	1.34	1.67	1.54	—	_	_	_	—	_	_	_	_	464	3424	
1994	-0.83	-0.93	-0.1	—	_	—	—	—	—	—	—	—	527	3834	
1995	-0.096	0.4	0.394	—	_	_	_	_	_	_	_	_	569	4066	
1996	1.402489	1.586298	0.92361	—	_	—	—	—	—	—	—	—	594	4210	
1997	1.403548	1.58821	0.924353	—	_	—	—	—	—	—	—	—	613	4239	
1998	1.416524	1.343989	1.122042	0.996646	0.924319	0.997904	0.992453	0.891614	0.951838	0.86499	0.3919	1.455119	611	4199	
1999	1.419457	1.345754	1.123498	0.996613	0.925275	0.997883	0.992379	0.892041	0.951365	0.866638	0.393397	1.45086	609	4155	
2000	1.414672	1.455711	1.228298	0.99657	0.926903	0.997856	0.992283	0.892605	0.950745	0.868382	0.395815	1.44583	607	4098	
2001	1.414544	1.456202	1.228216	0.997168	1.205011	0.997821	1	1	0.697593	0.885839	0.401355	1.171678	599	4031	
2002	1.403151	1.408762	1.169372	0.997324	1.211864	0.997993	1	1	0.69422	0.887154	0.403713	1.168599	593	3930	
2003	1.384631	1.318534	1.178805	0.997451	1.209917	0.997915	1	1	0.693669	0.886006	0.401813	1.183272	587	3766	
2004	1.35111	1.28464	1.174624	0.959611	1.134063	0.996594	0.995134	0.80219	0.986618	0.844769	0.731755	1.39854	565	3579	
2005	1.314466	1.244001	1.147656	0.955241	1.11315	0.996108	0.994718	0.785377	0.985544	0.860439	0.752022	1.42035	486	3142	
2006	1.114372	1.271905	1.106731	0.933041	1.097146	0.992316	0.991767	0.623491	0.979693	0.889682	0.818533	1.237651	272	1571	
erage/Total	1.383706	1.403869	1.118665	0.985625	1.077593	0.997303	0.995631	0.89754	0.867489	0.871865	0.489978	1.331569	8,033	54,089	

#### The Performance, Market Concentration, Governance Index, Country Risk and Bank Regulation and Supervision among years (Continued)