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# The Relationship between international expansion and firm performance: An investigation of U.S.-based restaurants and firms

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THE RELATIONSHIP BETWEEN INTERNATIONAL EXPANSION AND

FIRM PERFORMANCE:

AN INVESTIGATION OF U.S.-BASED RESTAURANTS FIRMS

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PART ONE

INTRODUCTION

Background of the Study

With the increasing trend of globalization, service industries are rapidly

expanding into the international market. With no exception, many U.S.-based restaurants

are expanding beyond the home country despite the risks. For example, Starbucks Coffee

Company opened 1,672 net new stores in the international market in fiscal 2005 alone

(Starbucks, 2005). Why is international expansion important? A company can grow by

exploiting overseas market opportunities and imperfections through internationalization

(Rugman, 1979, 1981) and growth has a positive impact on the firm performance. In

short, international expansion can be profitable to companies. Moreover, why is the

relationship between international expansion and firm performance important?

Ultimately, a company's performance is the objective and outcome of the company. A

company's value can be enhanced by increasing cash flow, decreasing risk, or both.

International diversification is one of the ways to increase cash flow by increasing

revenue. More specifically, the association between international diversification and

firm performance is a significant subject not only for academics who have struggled with

drawing a clear findings, but also for company managers who consider (1) expanding

their stores into the international market (2) finding out the optimal point for mature

multinationals. As a result, extensive research has been done on the effect of

international diversification on firm performance (e.g., Buhner, 1987; Gomes &

Ramaswamy, 1999; Grant, 1987; Hitt, Hoskisson, & Kim, 1997; Kotabe *et al*., 2002; Tallman & Li, 1996).

Problem Statement

Despite the rapid growth and size of international expansion in service industries, academic research on examining the relationship between international expansion and firm performance in service firms is still in the initial stages (Kotabe *et al*., 1998; Murray & Kotabe, 1999). Early studies have focused on other aspects of the internationalization process of service firms such as foreign market entry mode (e.g., Erramilli & Rao, 1993), determinants of foreign direct investment (e.g., Li & Guisinger, 1992), and sourcing strategies of multinational enterprise (MNE) in service industries (e.g., Murray & Kotabe, 1999).

Meanwhile, the link between overseas investment and firm level financial performance has been an important topic for researchers in the manufacturing industries (e.g., Hitt *et al*., 1997; Gomes & Ramaswamy, 1999; Kotabe *et al*., 2002). Although previous studies have proposed a positive effect of multinationality on performance, empirical research has not been able to provide conclusive findings on the association between international diversification and corporate performance (cf. Geringer, Beamish, & daCosta, 1989; Rugman, 1979). Ramsawamy (1995) stated that "a clear understanding of the impact of international expansion on organizational performance still remains elusive". Prior studies have shown four conflicting findings: (1) a positive linear relationship, (2) a negative linear or no relationship, (3) a U-shaped relationship (which indicates that an initial stage of international expansion results in the negative effects on

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performance, before the positive effects of international expansion are returned), and (4) an inverted U-shaped relationship (which indicates that international expansion increases company performance up to an optimal level, and again results in a negative slope on performance). Furthermore, early research has mostly examined the manufacturing industry (Habib & Victor, 1991). Due to the unique characteristics of service industry -- intangibility, inseparability, heterogeneity and perishability --, this study argues that the overall relationship between international diversification and firm performance in service industries possibly differs from the association in manufacturing industries.

## Purpose of the Study

This study has three objectives. First, based on the above argument, this study aims to examine whether there is an association between international expansion and U.S.-based restaurants performance in terms of accounting-based measures. Second, this study intends to examine how the performance of service firms will indeed change within an observed time frame of international expansion. Finally, the research hopes to provide insights and assistance both to academics and to company strategists who are in charge of the international operations of service firms.

## Organization of the Study

The paper is organized as follows. Part 1 provides the background of the study along with the significance and purpose of the study. Part 2 provides a theoretical background and extensive literature review of the international diversification-performance relationship and discusses the difference between manufacturing industry

and service industry.  Finally, Part 3 describes the sample, data, variables, and research methods used in the empirical part of this study.  In addition, Part 3 draws the main conclusions with a discussion of the managerial and theoretical implications, limitations of the study and suggestion for future research.

PART TWO


THORETICAL BACKGROUND

Introduction

This part will provide a theoretical background for the definition, purpose, and

advantages of international expansion, and discuss how service industries differ from

manufacturing industries and the implications of the differences.  Moreover, this part will

review previous studies that have thoroughly done but there has been a lack of conclusive

results in terms of the association between international expansion and firm performance.


The Definition of International Expansion

Hitt *et al*. (1997) defined international diversification as expansion across the

boundaries of geographical regions and countries into different global locations, or

market.  Capar and Kotabe (2003) defined international expansion as a company's

expansion beyond the boundaries of the company's home country across different nations

and global regions.  In other words, international expansion can be defined as a firm's

growth practice beyond the physical borders of its home country across diverse countries

and geographical areas.  Terms such as international diversification, multinationality, and

international diversity are often applied interchangeably in academic research (Capar &

Kotabe, 2003).

Why Manufacturing Companies Expand Internationally

Manufacturing firms seek an international expansion strategy for the purpose of taking advantage of diverse benefits through international expansion. Essential advantages of international diversification are as follows:

1. Market opportunities for greater growth

2. Economies of scale, and geographic scope

3. Sharing core competencies

4. Global sourcing

First, Buhner (1987) argued that international expansion provides firms with potential market opportunities for growth. In particular, when the stage of the industry life-cycle is mature, and/or competitions is severe in a domestic market, MNE firms can gain market opportunities by exploiting market imperfections in less saturated and less competitive foreign markets. Less saturated foreign markets provide companies with ways to expand distribution and achieve market share (Dunning, 1993). In addition, enormous market opportunities for greater growth lie around the world. According to World Population to 2300 published by the United Nations (2004), 97 percent of the world's population and 75 percent of its purchasing power is outside of the U.S.

Second, MNE firms could gain from economies of scale and geographic scope (Barlett & Ghoshal, 1989; Grant 1987; Kim *et al*., 1989). By integrating a critical resource such as R&D across nation boundaries, MNE firms can have greater opportunities to achieve optimal economies of scale. Economies of scale and geographic

scope allow companies to have various cost differentiation advantages such as arbitrage

potential (Contractor *et al*, 2003), bargaining power (Sundaram & Black, 1992), and

better cross-subsidization (Contractor, 2002).  Economies of scale also allow firms to

increase their efficiency, learning and innovation (Kochhar & Hitt, 1995).

Third, a firm with strong core competencies at its domestic market can exploit and

apply its core competencies among different business segments and geographic markets

(Bartlett & Ghoshal, 1989).  Porter (1990) suggested that the competitive advantages that

generate profitability in home markets stimulate the company to apply the same

competences in international markets to further enhance a firm's profitability.

Furthermore, the resources applying among a firm's multiple international operations

facilitate utilization of core competences to produce synergy (Grant, Jammine, & Thomas,

1988).  Simply stated, the more a firm adopts international diversification, the higher the

firm exploits its tangible and intangible resources, which is expected to lead to improved

performance (Hymer, 1976).

Lastly, MNE firms have access to a variety of global sourcing such as cheaper

labor, better qualified workforce, more advanced technology, country-specific resource

(Jung, 1991), and greater know – how or international experience (Kobrin, 1991).

## Why Service Companies Expand

Boddewyn et al. (1986) argued that theories developed for explaining the

performance of MNE manufacturing firms could be applied to MNE service firms.  In

fact, service firms seek the international expansion strategy for the similar reasons as

manufacturing firms: market access, resources, and labor cost, among others (Guile,

1988). Consequently, it can be argued that the fundamental theoretical rationale should be the same (Boddewyn *et al*., 1986; Dunning, 1989; Li & Guisinger, 1992). Dunning (1989) contended that geographic diversification in service markets provides benefits from economies of scale throughout the value chain process. Likewise, Campbell and Verbeke (1994) suggested that MNE service firms could take advantages of economies of scale in marketing activities. However, these discussions assume that just like manufacturing firms, service firms would incur certain fixed costs that have no relationship to a firm's outputs (Katrishen & Scordis, 1998).

Characteristics of Service firms vs. Manufacturing firms

Despite the similar motivations of service firms to expand internationally, there are also some differences between manufacturing and service firms (Capar & Kotabe, 2003). In the extensive literature on services, a lot of elements are used to define them: intangibility (a reservation by telephone call), perishability (a limousine ride), customization (a first class lounge for VIP customers), simultaneity of production and consumption (a check in /out at the hotel), consumer participation in production (food order processing), and use without a ownership (a car rental) (Boddewyn *et al*., 1986). Because of these characteristics of service, service firms have more intangible assets or sales which are probably hard to measure precisely compared to tangible assets or sales. Consequently, it can be argued that the relationship between international diversification and performance in service firms is somewhat different than that in manufacturing firms.

The Service Sector

Before beginning the study, the fact that substantial differences exist even in the service sector in terms of capital intensity and knowledge intensity should be acknowledged.  Contractor *et al*. (2003) categorized the services into the two sectors: the capital-intensive service sector and the knowledge-based service sector.  While the capital-intensive service sector employs a "seek-the-market" strategy, the knowledge-based service sector employs a "follow-the-client" strategy which implies it has clients already established (Contractor *et al*., 2003).  Furthermore, Boddewyn *et al*. (1986) classified service sector into three bounds: the foreign-tradeable service, a location-bound service, and combination services.  The foreign-tradeable service, which is similar to the knowledge-based service, creates a product that is separable throughout the whole process from production to consumption as well as transportable across different countries- for instance, financial loans.  On the other hand, a location-bound service, which is similar to the capital-intensive service, is stuck to the production place since its time and space are shared by producer as well as consumer- for instance, hotel accommodations.  Lastly, combination services are literally a combination of the foreign-tradeable service and a location-bound service.

In essence, knowledge-based service sectors (accounting, legal services, advertising, and market research) are more affected by intangible assets, have a much lower fixed capital cost, and have a lower cost per entry based upon a global standardization.  By contrast, for capital-intensive service sectors (air transport, hotels/casinos, and restaurants/fast food chains), the fixed capital investment cost is much higher and a larger size is required before the net benefits of expansion are generated

(Contractor *et al.*, 2003).  Contractor *et al.* (2003) argued that knowledge-based services enable the positive benefits of foreign expansion to be reaped faster than capital-intensive sectors.  As seen below, Table 1 presents a comparison between knowledge-based and capital-intensive service sector in sum.

Although these classifications are not ideal practices, this exercise has significant research implications.  Since capital-intensive services probably require foreign direct investment or alternative non-equity forms of international product from the very beginning and the process of the production-delivery-use chain must be performed abroad, a comparison of knowledge-based services vs. capital-intensive services is not suitable (Boddewyn *et al.*, 1986).  As this study will empirically investigate the sample of restaurants and fast food chains which are capital-intensive, the result of this study will possibly be different from a study in another service sector in terms of the relationship between performance and expansion.

Table 1 *Comparison of Service Sectors*

|  | *Knowledge-based Service Sector* | *Capital-based Service Sector* |
|---|---|---|
| Classification | Foreign tradeable service | Location bound service |
| Strategy | Follow the client | Market seeking |
| Characteristics | Lower fixed capital cost burden<br>More driven by intangible assets | Higher fixed capital investment cost<br>A larger global scale is required |
| Examples | Accounting, Legal service, Advertising | Hotels/casinos, **Restaurants/Fast food chains** |

Previous Studies that link International Expansion and Firm Performance

Many prior studies have extensively examined the association between international expansion and firm performance. However, empirical studies have produced inconclusive results. Research has shown the relationship between international expansion and firm performance to four different shapes. There include:

1. Positive linear

2. Negative linear

3. U-shaped non-linear

4. Inverted-U-shaped non-linear

These four relationships are described in diagrams in Figure 1.

Figure 1 *Diagrams of Various Relationships from Previous Studies*



Positive linear

Negative linear

U-Shaped non-linear

Inverted U-shaped non-linear
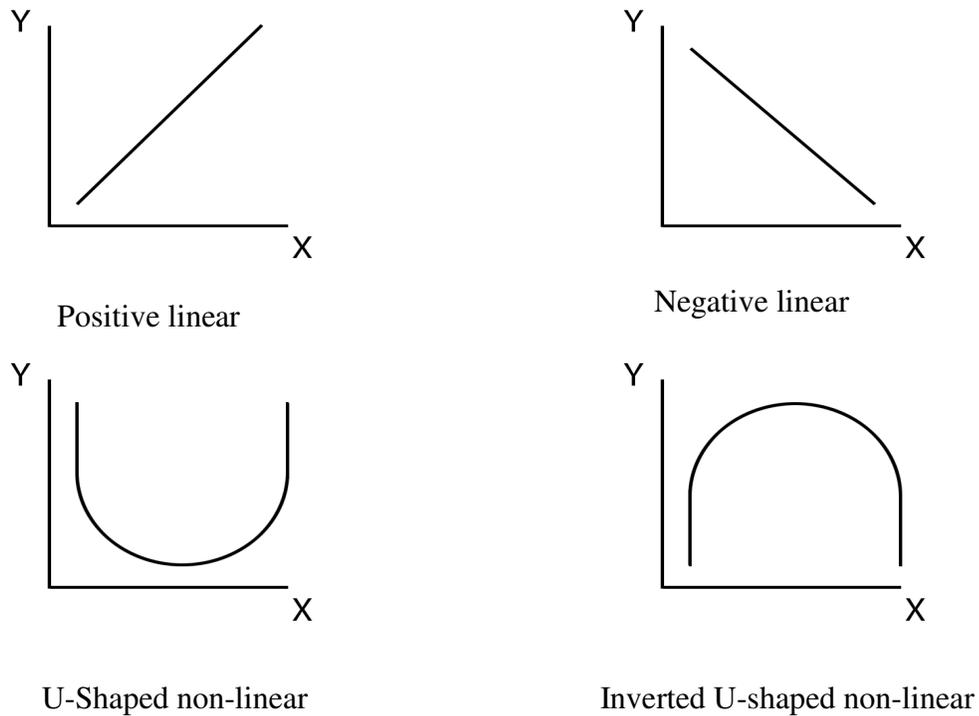
X: Expansion, Y: Performance

First, a positive linear relationship agrees with a growth theory of international business studies. The more a firm expands internationally, the better a firm's performance is (e.g., Daniels & Brackers, 1989; Jung, 1991; Grant, 1987; Haar, 1989). Second, a negative linear relationship implies that as a company expands abroad, it produces a negative effect on firm performance (e.g., Kumar, 1984; Siddharthan & Lall, 1982).

Third, a U-shaped non-linear relationship indicates that due to the barriers and costs to early international expansion, after the initial stage of international diversification there are negative effects on performance, and then positive effects of international expansion are returned later (e.g., Capar & Kotabe, 2003). It is suggested that initial

international diversification require firm to invest in learning about foreign markets. After that, the fixed costs and R&D investment can be spread over nations (Porter, 1985). The incremental benefits of more international diversification are now greater than the incremental costs of more diversification.

Lastly, an inverted U-shaped non-linear relationship indicates that international expansion strengthens company performance up to an optimal level resulting from the benefits of internationalization, and again results in a negative slope on performance caused by the operation costs and complication in managing widely scattered properties (e.g., Gomes & Ramaswany, 1999; Hitt *et al*., 1997; Kotabe *et al*., 2002; Tallman & Li, 1996). That is to say, even though the initial overseas growth generates moderately high levels of performance benefits due to the company's core competencies, the increasing complexities and costs associated with higher degree of multinationality eventually decrease the levels of performance. The following hypothesis summarizes these arguments:

> **Hypothesis:** The relationship between international expansion and performance in service firms will be inverted U-shaped nonlinear, with performance increasing up to an optimal level, beyond which higher levels of international expansion will lead to performance decline.

Table 2 indicates explanation of each relationship in short and Table 3 summarizes previous literature on the relationship between international expansion and firm performance.

Table 2 *Brief Explanation of Various Relationships*

| Relationship | Explanation |
|---|---|
| Positive Linear | International Expansion ↑ → Performance ↑ |
| Negative Linear | International Expansion ↑ → Performance ↓ |
| U-shaped Non-linear | Due to the costs and barriers to initial I.E., negative up to a certain point<br>And positive beyond the point resulting from benefits of internationalization |
| Inverted U-shaped Non-linear | Resulting from benefits of internalization, positive up to a certain point<br>And negative beyond the point due to the incremental cost and complexity |

Table 3 *Summary of Previous Literature that link Performance and Degree of*

*Multinationality*

| Relationship | Author(s) and Year | Samples | Performance indicators |
|---|---|---|---|
| Positive Linear | Errunza and Senbet (1981) | U.S. Multinationals | Excess return |
| | Grant (1987) | British Manufacturing | ROA, ROE, ROS |
| | Grant et al. (1988) | British Manufacturing | ROA, ROE, ROS |
| | Jung (1991) | U.S. Multinationals | (After-tax net income)/ (Total assets) |
| | Kim and Lyn(1987) | U.S. Manufacturing | Excess market value; Tobin's Q |
| | Vermon (1971) | U.S. Manufacturing | ROI, ROS |
| Negative Linear | Brewer (1981) | U.S. MNE, NATL | Stock return |
| | Collins (1990) | U.S. Firm | Total risk, Debt to equity ratio, Beta |
| | Michel and Shaked (1986) | U.S. Multinationals | Risk-adjusted return |
| | Siddharthan and Lall (1982) | U.S. Manufacturing | Sales growth |
| U-shaped Non-linear | Capar and Kotabe (2003) | German Service | ROS |
| | Qian (1997) | U.S. Firm | ROE |
| | Ruigrok and Wagner (2003) | German Manufacturing | ROA |
| Inverted U-shaped Non-linear | Daniels and Bracker (1989) | U.S. Firm | ROA, ROS |
| | Gomes and Ramaswany (1999) | Manufacturing | ROA, Operating cost/total sales |
| | Hitt, Hoskisson and Kim (1997) | Manufacturing | ROA |

Conclusion

The literature discussing international expansion indicated that international diversification possesses both positive and negative effects on company performance. The point depends on when and how a company employs the international expansion strategy. This part provided a literature review for the definition, purposes, and merits of international expansion, discussed the differences between manufacturing and service industries in terms of international diversification. In addition, this section discussed inconclusive results which are four different relationships that link between international expansion and firm performance based upon previous studies.

Further understanding into the effect of international expansion on firm value can be gained through the quantitative review of MNE secondary data. The next part will describe the sample, data collection, and a variety of variables which will be used in the research.

PART THREE

METHODOLOGY

Introduction

For the purpose of empirically testing the curvilinearity hypothesis, this study will employ the sample of U.S.-based restaurants and fast food chains. Multiple regression analysis will be used in order to explore the association between multinationality and firm performance. The sample, data collection, explanations of each variable and the method respectively, will be presented in this chapter.

The Sample

A sample of U.S.-based service firms will be drawn from the Fortune 500 U.S. Service Firms list. To be included in the sample, a firm should (1) be a restaurant and/or a fast food chain among the service industry, (2) have at least 10 percent of its sales overseas, and (3) be either single or non-diversified business.

Restaurants and fast food chains will be chosen as the firms of interest. Gomes and Ramaswamy (1999) implied that this industry seems ideal since a large proportion of U.S.-based restaurants and fast food companies are currently operating as major players in the international hospitality industry. Among those U.S.-based restaurants and fast food chains, firms generating at least 10 percent of their sales overseas will be selected similar to many previous studies (Daniels *et al*., 1984; Geringer *et al*., 1989; Gomes & Ramaswamy, 1999; Habib & Victor, 1991; Stopford & Wells, 1972; Siddharthan & Lall, 1982). Finally, single and dominant non-diversified businesses will be chosen for the

purpose of preventing the potential effects that the type of diversification might have on

performance results (Capar & Kotabe, 2003; Gomes & Ramaswamy, 1999; Hitt *et al.*,

1997).  As seen below, Table 4 presents the sample of U.S.-based restaurants and fast

food chains.

Table 4

*The Sample of U.S.-based Restaurants and Fast food chains*

| Rank by sales | Companies |
| --- | --- |
| 1 | McDonald's |
| 2 | KFC |
| 3 | Burger King |
| 4 | Pizza Hut |
| 5 | Subway |
| 6 | Wendy's |
| 7 | Starbucks |
| 8 | Taco Bell |
| 9 | Domino's Pizza |
| 10 | Applebee's Neighborhood Grill & Bar |
| 11 | Dunkin' Donuts |
| 12 | Tim Hortons |
| 13 | Chili's Grill & Bar |
| 14 | Sonic Drive-In |
| 15 | Outback Steakhouse |
| 16 | Arby's |
| 17 | T.G.I. Friday's |
| 18 | Jack in the Box |
| 19 | Dairy Queen |
| 20 | 7-Eleven |
| 21 | Red Lobster |
| 22 | Olive Garden |
| 23 | Denny's |
| 24 | IHOP |
| 25 | Chick-fil-A |
| 26 | Papa John's |
| 27 | Hardde's |
| 28 | Cracker Barrel Old Country Store |
| 29 | Popeyes Chicken & Biscuits |
| 30 | Panera Bread |
| 31 | Ruby Tuesday |

| | |
|---|---|
| 32 | Quiznos Sub |
| 33 | Golden Corral Buffet & Grill |
| 34 | Carl's Jr. |
| 35 | Baskin-Robbins |
| 36 | The Cheesecake Factory |
| 37 | Bob Evans |
| 38 | Church's Chicken |
| 39 | HomeTown Buffet/Old Country Buffet |
| 40 | Little Caesars |
| 41 | Krispy Kreme Doughnuts |
| 42 | Whataburger |
| 43 | Hooters |
| 44 | Red Robin Gourmet Burgers |
| 45 | Ryan's Grill, Buffet & Bakery |
| 46 | Perkins Restaurant & Bakery |
| 47 | Long Jonn Silver's |
| 48 | Texas Roadhouse |
| 49 | Romano's Macaroni Grill |
| 50 | Waffle House |
| 51 | Panda Express |
| 52 | Boston Market |
| 53 | Bennigan's Grill & Tavern |
| 54 | P.F.Chang's China Bistro |
| 55 | Steak 'n Shake |
| 56 | LongHorn Steakhouse |
| 57 | Friendly's |
| 58 | Buffalo Wild Wings Grill & Bar |
| 59 | Chipotle |
| 60 | Checkers Drive-In/Rally's Hamburgers |
| 61 | Sbarro |
| 62 | O'Charley's |
| 63 | Carrabba's Italian Grill |
| 64 | California Pizza Kitchen |
| 65 | White Castle |
| 66 | Del Taco |
| 67 | Captain D's Seafood |
| 68 | Chuck E. Cheese's Pizza |
| 69 | CiCi's Pizza |
| 70 | Culver's Frozen Custar |
| 71 | El Pollo Loco |
| 72 | Lone Star Steakhouse & Saloon |
| 73 | Uno Chicago Grill |
| 74 | Bojangles' Famous Chicken 'n Biscuits |
| 75 | Shoney's |
| 76 | Logan's Roadhouse |
| 77 | Joe's Crab Shack |

| | |
|---|---|
| 78 | Wawa |
| 79 | On the Border Mexican Grill & Cantina |
| 80 | Krystal |
| 81 | Papa Murphy's Take 'N' Bake Pizza |
| 82 | Cold Stone Cremery |
| 83 | Circle K |
| 84 | Hard Rock Café |
| 85 | Ponderosa/Bonanza |
| 86 | Tony Roma's |
| 87 | Chster's |
| 88 | Johnny Carino's Italian |
| 89 | Ruth's Chris Steak House |
| 90 | In-N-Out Burger |
| 91 | Fazoli's |
| 92 | Sizzler |
| 93 | Round Table Pizza |
| 94 | Einstein Bros. Bagels |
| 95 | Village Inn |
| 96 | Jamba Juice |
| 97 | Baja Fresh Mexican Grill |
| 98 | Fuddruckers |
| 99 | Jason's Deli |
| 100 | Blimpie |

*Source: Restaurants & Institutions'2006 ranking of the Top 400 chains*

The Data

The data used in the empirical analysis will be primarily gathered from various

public information sources including Form 10-k, annual reports and directories. In

addition to financial resources, the data will also use other information such as company

demographics, company structure, and market size. These data will be collected and

averaged for a five-year period between 2002 and 2006 in order to reduce random

variation (Capar & Kotabe, 2003; Hitt *et al*., 1997).

Dependent Variable (Performance)

Three accounting-based profitability measures were initially taken into consideration as dependent variables: ROE (Return on equity), ROA (Return on assets) and ROS (Return on sales). Since ROE is more sensitive to capital structure differences, it will not be used in this study (Hitt *et al*., 1997). In addition, although many of the prior studies have used ROA to measure firm performance, ROA will not be employed in this study for the following reasons. Both ROA and ROS are highly correlated and thus, tend to produce similar findings (Contractor *et al*., 2003; Hitt *et al.,* 1997). In addition, Capar and Kotabe (2003) implied that service companies incline to hold larger portions of intangible assets than manufacturing companies, and the degree of intangible assets is likely to vary significantly across different service sectors (for example, knowledge-based firms vs. capital-based firms). Therefore, assets-based performance measures are less likely to consider this difference. Consequently, among these variables, ROS will be used as a dependent variable to examine the association between degree of international diversification and firm performance. ROS has been widely used in many previous studies (e.g., Capar & Kotabe, 2003; Grant, 1987; Haar, 1989). Moreover, ROS prevents the potential impacts of diverse asset valuations caused by depreciation (Contractor *et al*., 2003; Geringer *et al*., 1989).


Independent Variable (International diversification)

Multidimensional measures will be employed to measure the degree of international diversification. Sullivan (1994) argued that international diversification includes various factors and multinational companies are comprised of a

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multidimensional construct. Ramaswamy *et al*. (1996) argued for the use of a single-item

measure based upon problems that it might have with content validity, criterion validity,

and reliability. Therefore, previous studies have applied composite methods to measure

the degree of international expansion. The most generally used measures are the ratio of

foreign sales to total sales (Contractor *et al*., 2003; Geringer *et al*., 1989; Grant, 1987;

Tallman & Li, 1996), the ratio of foreign assets to total assets (Daniels & Bracker, 1989;

Gomes & Ramaswamy, 1999; Ramaswamy *et al*., 1996), and the number of foreign

countries in which a firm has subsidiaries (Tallman & Li, 1996). Each of these methods

has its own advantages and tends to measure the depth of international diversification

(Contractor *et al*, 2003). Consistent with previous studies, this study will measure a

multiple index including all three dimensions which are foreign sales, foreign assets, and

nations of operation. In addition, all three measures will be loaded on one single

component and treated as weights to derive the combined multinationality index

(Contractor *et al*., 2003; Gomes & Ramaswamy, 1999). Since the component variables

(percentage of foreign sales, percentage of foreign assets, and number of countries)

involve different scales, the multinationality index will be standardized. This process

will ensure that a result of index represents greater fidelity, and is especially appropriate

in nonlinear modeling (Cohen & Cohen, 2003).


Dummy Variable

The home country of multinational companies will be selected as a dummy

variable. Hitt *et al*. (1994) insisted that the home of the multinational firm can describe

differences in performance and this hypothesis proved the positive indication for the U.S.

dummy.  Since the service industry has grown earlier and comprehensively in the U.S.

relative to other countries, U.S. - based companies are more likely to have a performance

advantage (Contractor *et al*., 2003).


## Control Variable

Control variables in this study are hypothesized to affect firm performance.

Consistent with previous studies (e.g., Buckley, Dunning, & Pearce, 1977; 1984; Capar &

Kotabe, 2003; Contractor *et al*., 2003; Gomes & Ramaswamy, 1999; Haar, 1989; Hitt *et

al*., 1997; Kumar, 1984), firm size will be utilized as control variables to further

investigate the association between expansion and performance.  According to Jung

(1991), firm size, relative to the market, could affect rates of return. Large companies are

more likely to be able to borrow in the capital market at lower cost and to operate at

lower cost because they can spread their risk.  They can obtain economies of scale in

managerial sectors such as R&D, marketing, and finance as well.  Firm size will be

measured by the natural logarithm of total sales.  While early studies exercised the

industry effect as a control variable, the industry effect will not be included in this study

in that this research mainly focuses on restaurant industry, and thus, the sample of this

study is comprised of restaurants firms.  The industry effect does not need to be utilized

in this situation.


## The Method

This study will develop and test two models in order to analyze the association

between international expansion and firm performance.  The two models regress firm

performance (PERF) for various combinations of main and control variables. Accordingly:

$$PERF = \alpha 0 + \alpha 1 DOI\% + \alpha 2 SIZE + \alpha 3 C + \acute{\imath} \quad (1)$$

$$PERF = \beta 0 + \beta 1 DOI\% + \beta 2 DOI\%^2 + \beta 3 SIZE + \beta 4 C + \acute{\imath} \quad (2)$$

Where,

PERF = firm performance estimated by ROS

DOI% = degree of internationalization estimated by the sum of FSTS (Foreign sales/total sales), FATA (Foreign assets/total assets), and FCTC (Number of operations in foreign countries/total number of operations)

$DOI\%^2$ = quadratic terms

FIRM SIZE = market capitalization estimated by natural logarithm of total sales

C = home country effect to control for U.S.-based vs. non U.S.-based home nation

   1= U.S.-based, 2= Non-U.S.based

$\acute{\imath}$ = error term

Model 1 is to examine the impact of general internationalization on firm performance by using DOI% as a main variable and controlling for firm size. Furthermore, Model 2 includes $DOI\%^2$ to investigate a quadratic relationship between international expansion and firm performance.

**CONCLUSIONS**

Summary of the Study

A significant number of U.S.-based restaurants and fast food chains have expanded their properties into overseas. International expansions provide companies with the benefits as a way to gain competitive advantage. However, in spite of these benefits, a point in question is whether international expansion actually has a positive impact on firm performance. Although extensive research has been done on this subject, they failed to reach consistent results. This study suggests an inverted U-shaped non linear relationship which is positive up to an optimal level resulting from the advantages of internationalization and negative beyond that level caused by the complication between international expansion and firm performance.

Implications for Management

Expansion overseas possesses a variety of potential benefits. However, due to the complexity of international diversification, the ability to implement and manage expansion effectively is critical and necessary in order to achieve those advantages. Based upon the result of the study, this research hopes to offer better understanding and guidance to both academics who have struggled with inconsistent results and to especially company strategists operating the international service firms. With better knowledge, managers are able to decide when and how to implement such expansion and ultimately achieve the optimal level. For instance, if managers are more clearly concerned about the negative aspects of initial international expansion, they can be better prepared to lower the costs of early internationalization.

Limitations and Suggestions for future study

This study does not examine the possibly confusing issue of causation. In other words, since companies continue to expand their properties during a period of this study, continuing international expansion may affect future output. Moreover, this study remains the unaddressed possibility of whether the relationship is stable over time. Given a longer period of time, and detailed assumptions, one may be able to examine a link between international expansion and firm performance more precisely and explicitly. Finally, the differences existing between knowledge-based service sector and capital-based service sector might generate different results in terms of the relationship between expansion and performance in that capital-based service sector requires more extensive initial capital investment than knowledge-based service sector. One might examine empirically testing the differences between these two sectors.

REFERENCES

Bartlett, C. A., & Ghoshal, S. (1989). *Managing across borders :The transnational solution*. Boston, Mass.: Harvard Business School Press.

Brewer, H. L. (1981). Investor benefits from corporate international diversification. [Electronic version]. *Journal of Financial and Quantitative Analysis, 16*(1), 113.

Buhner, R. (1987). Assessing international diversification of west german corporations. [Electronic version]. *Strategic Management Journal, 8*(1), 25.

Campbell, A. J., & Verbeke, A. (1994). The globalization of service multinationals. [Electronic version]. *Long Range Planning, 27*(2), 95.

Capar, N., & Kotabe, M. (2003). The relationship between international diversification and performance in service firms. [Electronic version]. *Journal of International Business Studies, 34*(4), 345.

Caves, R. E. (1982). *Multinational enterprise and economic analysis*. Cambridge; New York: Cambridge University Press.

Chandler, A. D. (1962). *Strategy and structure: Chapters in the history of the industrial enterprise*. Cambridge: M.I.T. Press.

Cohen, J., & Cohen, J. (2003). *Applied multiple regression/correlation analysis for the behavioral sciences* (3rd ed.). Mahwah, N.J.: L. Erlbaum Associates.

Collins, J. M. (1990). A market performance comparison of U.S. firms active in

   domestic, developed and developing countries. [Electronic version]. *Journal of*

   *International Business Studies, 21*(2), 271.

Contractor, F. J. (2002). *International expansion strategies*: *International Encyclopaedia*

   *of Business and Management.* London: International Thomson Buiness Press.

Contractor, F. J., Kundu, S. K., & Hsu, C. (2003). A three-stage theory of international

   expansion: The link between multinationality and performance in the service sector.

   [Electronic version]. *Journal of International Business Studies, 34*(1), 5.

Daniels, J. D., & Bracker, J. (1989). Profit performance: Do foreign operations make a

   difference? [Electronic version]. *Management International Review, 29*(1), 46.

Dunning, J. H (1989). *Transnational corporations and growth of services : Some*

   *conceptual and theoretical issues.* New York: United Nations.

Dunning, J. H. (1993). *Multinational Enterprises and the Global Economy.* Addision-

   Wesley: Wokingham.

Erramilli, M. K., & Rao, C. P. (1993). Service firms' international entry-mode choice: A

   modified. [Electronic version]. *Journal of Marketing, 57*(3), 19.

Errunza, V. R., Senbet, L. W., & Logue, D. E. (1981). The effects of international

    operations on the market value of the firm: Theory and Evidence/Discussion.

    [Electronic version]. *The Journal of Finance, 36*(2), 401.

Geringer, J. M., Beamish, P. W., & daCosta, R. C. (1989). Diversification strategy and

    internationalization: Implicat. [Electronic version]. *Strategic Management Journal,*

    *10*(2), 109.

Gomes, L., & Ramaswamy, K. (1999). An empirical examination of the form of the

    relationship between multinationality and performance. [Electronic version]. *Journal*

    *of International Business Studies, 30*(1), 173.

Grant, R. M. (1987). Multinationality and performance among british manufacturin.

    [Electronic version]. *Journal of International Business Studies, 18*(3), 79.

Grant, R. M., Jammine, A. P., & Thomas, H. (1988). Diversity, diversification, and

    profitability among british. [Electronic version]. *Academy of Management Journal,*

    *31*(4), 771.

Guile, B. R. (1988). *Introduction to service industries policy issues*: *Policies for growth,*

    *trade, and employement.* Washington: National Academy Press.

Haar, J. (1989). A comparative analysis of the profitability performance of the largest

    U.S., european and japanese multinational enterprises. [Electronic version].

    *Management International Review, 29*(3), 5.

Habib, M. M., & Victor, B. (1991). Strategy, structure, and performance of U.S.

manufacturing and service MNCs: A comparative analysis. [Electronic version].

*Strategic Management Journal, 12*(8), 589.

Hitt, M. A., Hoskisson, R. E., & Kim, H. (1997). International diversification: Effects on

innovation and firm performance in product-diversified firms. [Electronic version].

*Academy of Management Journal, 40*(4), 767.

Hitt, M., Hoskisson, R. E., & Ireland, R. D. (1994). A mid-range theory of the interactive

effects of international and product diversification on innovation and performance.

[Electronic version]. *Journal of Management, 20*(2), 297.

Hsiao, C. (1995). *Panel analysis for metric data: Handbook of statistical modeling for

the social and behavior sciences.* New York; Plenum Press.

Hymer, S. H. (1976). *A study of direct foreign investment*. Cambridge; MIT Press.

Jung, Y. (1991). Multinationality and profitability. [Electronic version]. *Journal of

Business Research, 23*(2), 179.

Kim, W. C., Hwang, P., & Burgers, W. P. (1989). Global diversification strategy and

corporate profit perfor. [Electronic version]. *Strategic Management Journal, 10*(1),

45.

Kobrin, S. J. (1991). An empirical analysis of the determinants of global integration. [Electronic version]. *Strategic Management Journal, 12*, 17.

Kogut, B. (1985). Designing global strategies: Profiting from operational flexibility (part 1). [Electronic version]. *Sloan management review, 27*(1), 27.

Kotabe, M., Murray, J. Y., & Javalgi, R. G. (1998). Global sourcing of services and market performance: An empirical investigation. [Electronic version]. *Journal of International Marketing, 6*(4), 10.

Kotabe, M., Srinivasan, S. S., & Aulakh, P. S. (2002). Multinationality and firm performance: The moderating role of R&D and marketing capabilities. [Electronic version]. *Journal of International Business Studies, 33*(1), 79.

Krishna, E. M. (1987). Understanding the foreign market entry mode choice in service firms: An exploratory study. (Ph.D., University of Arkansas).

Kumar, M. S. (1984). *Growth, acquisition and investment.* Cambridge; Cambridge University Press.

Li, J., & Guisinger, S. (1992). The globalization of service multinationals in the 'triad' r. [Electronic version]. *Journal of International Business Studies, 23*(4), 675.

Michel, A., & Shaked, I. (1986). Multinational corporations vs. domestic corporations: Financial performance and characteristics. [Electronic version]. *Journal of International Business Studies, 17*(3), 89.

Murray, J. Y., & Kotabe, M. (1999). Sourcing strategies of U.S. service companies: A modified transaction-cost analysis. [Electronic version]. *Strategic Management Journal, 20*(9), 791.

Porter, M. E. (1990). *The competitive advantage of nations*. New York: Free Press.

Qian, G. (1997). Assessing product-market diversification of U.S. firms. [Electronic version]. *Management International Review, 37*(2), 127.

Ramaswamy, K., Kroeck, K. G., & Renforth, W. (1996). Measuring the degree of internationalization of a firm: A comment. [Electronic version]. *Journal of International Business Studies, 27*(1), 167.

Restaurants & Institutions Magazine (2006). *Special Report Top 400:*2006. Retrieved October 07, 2007,
from
http://web.ebscohost.com.ezproxy.library.unlv.edu/ehost/pdf?vid=2&hid=9&sid=a0a169e0-fbec-478b-9821-72225e47cc05%40sessionmgr2

Rugman, A. (1982). Inside the multinationals, the economics of internal markets // review. [Electronic version]. *Canadian Public Policy, 8*(3), 395.

Ruigrok, W., & Wagner, H. (2003). Internationalization and performance: An

organizational learning perspective. [Electronic version]. *Management International

Review, 43*(1), 63.

Starbucks Coffee Company (2005). *Fiscal Annual Report*: 2005. Retrieved October 20,

2006, from http://library.corporate-

ir.net/library/99/995/99518/items/178285/Annual_Report_2005_part1.pdf

Siddharthan, N. S., & Lall, S. (1982). The recent growth of the largest US multinationals.

[Electronic version]. *Oxford Bulletin of Economics and Statistics, 44*(1), 1.

Sullivan, D. (1994). Measuring the degree of internationalization of a firm. [Electronic

version]. *Journal of International Business Studies, 25*(2), 325.

Sundaram, A. K., & Black, J. S. (1992). The environment and internal organization of

multinational enterprises. [Electronic version]. *Academy of Management.the Academy

of Management Review, 17*(4), 729.

Tallman, S., & Li, J. (1996). Effects of international diversity and product diversity on

the performance of multinational firms. [Electronic version]. *Academy of

Management Journal, 39*(1), 179.

United Nations (2004). *World Population to 2300*: 2004. Retrieved October 07, 2007,

from

http://www.un.org/esa/population/publications/longrange2/WorldPop2300final.pdf