DISCUSSION PAPER 8913

SEPTEMBER 1989

ECONOMIC DEVELOPMENT OF ASEAN COUNTRIES AND THEIR PROSPECTS FOR NIC STATUS

BY

MITSUO EZAKI

Note: UPSE Discussion Papers are preliminary versions circulated privately to elicit critical comment. They are protected by the Copyright Law (PD No. 49) and not for quotation or reprinting without prior approval.

ABSTRACT

This paper attempts, first, to make an overview of the economic development of Indonesia, Malaysia, the Philippines, and Thailand in the postwar period (especially since the 1960's) from both macro and industry levels and, then, to investigate their prospects of attaining the status of NICs (Newly Industrializing Countries) in the near future. The latter topic is discussed in the light of the concepts of NICs employed by OECD and B. Balassa around 1980. Tables 6 and 7 provide the corresponding data which are comparable across countries over time.

add X The Land St. Co., and the control of the cont

Economic Development of ASEAN Countries and Their Prospects towards NICs

by

Mitsuo Rzaki

1. Introduction

The purpose of this paper is to make an overview of the economic development of Indonesia, Malaysia, the Philippines, and Thailand in the postwar period (especially since the 1960's) from both macro and industry levels, and to investigate their prospects of attaining the status of NICs (Newly Industrializing Countries) in the near future. These four countries are members of ASEAN (Association of South-East Asian Nations), which was founded in 1967, and so will be called "ASEAN4" throughout this paper. The term "NICs" is used here rather than the term "NIEs" (Newly Industrializing Economies)" to maintain consistency with OECD [1979, 1988], but "NICs" should be replaced by "NIEs" when Taiwan and Hong Kong are referred to.

The author has in mind the theory of dualistic development as a methodology in analyzing the economic development of ASEAN4.2 In other words, the economic development in each of the ASEAN4 countries is understood as the process in which the center of gravity in growth shifts from primary sectors (agriculture, in particular) to non-primary ones (manufacturing or industrial sector, in particular). Here, the industrial sector is considered as the leading sector for development. Its growth leads the

growth of the whole economy but must be supported by the corresponding expansion in exports. This is because the industrial
development requires imports of industrial raw materials and
capital goods and, in general, exports make the importation
possible.

The exportation, which supports growth and development of the industrial sector as well as of the whole economy, made either by the industrial sector itself (i.e., manufactured goods) or by the primary sector (i.e., exports of and saddelity primary commodities). The Asian NICs (Korea, Taiwan, Hong Kong, and Singapore), which are poor in natural resources, all pursued for the outward-looking, export-oriented industrialization from the beginning, and realized rapid development due to a favorable expansionary circle of exports and investment, which may be schematized as follows: exports of manufactured goods --- > imports of intermediate and capital goods --> investment --> productivity increase --> (import substitution) --> exports.4 On the other hand, ASEAN4 countries are rich in natural resources and their industrialization depends more or less on the exports of primary commodities. Prices of primary commodities including oil began to decline steadily from the beginning of the 1980's. One of the crucial problems which the four countries in ASEAN are now facing in their process of industrialization is, therefore, reduce and lessen the degree of dependence on primary exports, on the one hand, and how to realize the expansionary circle manufacturing exports and investment, on the other.5

Economic development of ASEAN4 since the 1960's may be characterized generally as follows from the point of view of industrialization: "import substitution" for the 1960's, "import substitution and export orientation" for the 1970's, and "structural adjustments" for the 1980's. This characterization of each decade describes just the average path of development or industrialization of the four countries so that each of the four, of course, may deviate more or less from the average path. For example, the phase of import substitution in the Philippines began as early as in the 1950's. The phase of import substitution and/or export orientation in Indonesia came a decade later than above. Furthermore, structural adjustments are quite different in contents between the four countries.

The author has in mind the following key words as the most important characteristic of each individual economy in analyzing its development overtime through decades: "oil" for Indonesia, "New Economic Policy (NEP)" for Malaysia, "crony capitalism" for the Philippines, and "stability-crientation" for Thailand. "Oil" means Indonesia's heavy dependence on petrolsum in the past and recent efforts to overcome it. "NEP" means Malaysia's pursuit for equity by bumiputra policy probably at the cost of efficiency in the short-run. "Crony capitalism" in the Philippines symbolizes the collapse of market mechanism through rent-seeking activities during the Marcos period. "Stability-orientation" summarizes the balanced economic management and moderate but steady growth in Thailand.

In section 2, we will review very briefly the economic levels, growth performance, atructural changes, and commodity problems for the ASEAN4 countries based on Tables 1, 2, 3, 4 and 5 as well as on Figures 1 and 2. In section 3, we will discuss in some detail the prospects of ASEAN4 to become NICs based mainly on tables 6 and 7.

2. An Overview of the Development of ASEAN4 Countries

Table 1 summarizes such basic indicators as population. area, GDP, and so on for ASEAN4 countries, Japan, and the United States in a comparable way. From the upper part of Table 1, we can see that total economic size of ASEAN4 in terms of GDP is only 8% of Japan and 4% of USA, while average income of ASEAN4 in terms of per capita GDP is only 3% of Japan or USA. This low level of ASEAN4 as compared with Japan or the United States is partly due to the exchange rate used in international comparison. The middle part of Table 1 shows the rates of deviation between exchange rates and purchasing power parities for ASEAN4, which indicate a huge undervaluation of the exchange rate vis-a-vis the purchasing power parity (i.e., from 58% for Indonesia to 52% for Malaysia). When the comparison is made based on the purchasing power parity, total GDP of ASEAN4 increases significantly (almost 3 times) as shown in the lower part of Table 1, exceeding total GDP of Asian NICs by 60% (but 5% less based on the exchange rate conversion). Average per capita GDP of ASEAN4, however, is only 12% of USA, indicating still a large income gap in spite of

the upward revaluation of income by three times based on the purchasing power parity. 7

Table 2 summarizes average growth rates of GDP and its components for each decade in a comparable way between ASRAN4 and some selected countries or groups of countries. We can derive three major facts for the growth performance of ASEAN4 from the First, the 1970's was the period of high growth while the 1980's (at least until the middle of the decade) the period of stagnation or of low growth for ASEAN4. This is more or less true for other countries. Second, all the countries in ASEAN4 in the 1970's did much better than any of other countries or groups in growth performance. This rapid growth was led by the industrial sector, especially the manufacturing industry. Third, the performance of the four countries diverged in the 1980's. The Philippines was dropped from the group due meinly to political turnoils and debt crisis. The remaining three all suffered from recession experienced by industrialized countries in the early 80's as well as from stagnation in primary commodity prices almost throughout the decade, but still maintained relatively better performance compared with most of other countries and groups.

ASEAN4 (except Indonesia) changed their industrialization strategy from 'import substitution' to 'export promotion' (plus import substitution) around 1970.9 This change took momentum through the promulgation of such promotion or regulation acts as investment incentives act, export incentives act, export processing zone act and so on, in the period from 1967 to 1972 in the

case of Malaysia, the Philippines and Thailand. Indonesia also introduced similar acts from 1987 to 1970 but mainly for the purposs of import substitution. In Indonesia, expert promotion began to be stressed only after the sharp decline in oil price of March 1983.

its share in GDP steadily from 1970 to 1988 (or 1987) in each of the ASEAN4 countries due to its rapid growth especially in the 1970's. The share of manufactured goods (SITC 5-9) in exports also increased steadily and rapidly in all of the four countries (though mostly in the 1980's in the case of Indonesia). The Philippines' achievement seems to be a little misleading because of the unusually high share of SITC 9, most of which consists of production by consignment with a limited amount of net foreign exchange earnings. The employment structure seems to be a problem in that the share of manufacturing in total employment is still very low compared with the share in total production (GDP), indicating low absorptive capacity of the sector in most cases.

on the exports of primary commodities (SITC 0 to 4 including processed food11) though the Philippines may probably be regarded as an exception. Furthermore, we share of exports in GDP on the expenditure side is remarkably high in Malaysia and fairly high in Thailand, so that prices of primary commodities are expected to have had significant effects on economic growth in the ASEAN4 countries except for the Philippines. This can be confirmed by

Fig.1 and Table 4, which shows fairly strong correlations between GDP growth and changes in primary commodity prices. Malaysia's correlation is steady and strong as is expected. Though correlation coefficients mean bilateral relations but not causal ones, we may be able to interpret the results in a causal way from price changes to economic growth. Primary commodity prices are, in general, an external exogenous factor to each of the ASEAN4 countries.

Primary commodity prices are strongly correlated with world income or world demand, which is also an important external exogenous factor to ASEAN4. Taking changes in these two exogenous factors as external shocks on the balance of payments, Table 5 evaluates quantitatively the amount of shocks by decomposing it into four policy responses or adjustments, through which the shocks are absorbed, for the four countries of ASKAN4 as well as for some of the NICs and Japan. Note that real (i.e., relative) prices of primary commodities are replaced by terms of trade (i.e., export prices/import prices). Note also that the analysis here covers from 1973/74 to 1982/83 which includes only the period of oil price hikes, resulting in a period of external bonanza for Indonesia and Malaysia but in a period of negative external shocks for the Philippines and Thailand. As to the policy responses to external shocks, Thailand's response is in rather striking contrast to that of the Philippines. In Thailand, world market penetration and import substitution played significant roles in absorbing shocks, and the dependence on external borrowing was limited to one half to two-thirds of total shocks. On the other hand, the Philippine dependence on external borrowing is 80 to 100%. The Thai behavior looks somewhat like the behavior of Kores or Taiwan, where the adjustments by world market penetration and import substitution are quite significant and large. 12

3. Prospects of ASEAN4 towards NICe

3.1. Definition of NICs (Newly Industrializing Countries)

Is it possible for ASEAN4 (i.e., Indonesia, Malaysia, the Philippines, and Thailand) to become NICs in the near future? Or are they already members of the NICs? In order to answer this question, we must discuss first what NICs really mean or what is the definition of NICs. The term "NICs" appeared first in OECD [1979], in which ten middle-income developing countries were taken as samples for NICs, i.e., Korea, Taiwan, Hong Kong, Singapore, Brazil. Mexico, Greece, Yugoslavia, Spain, Portugal. Analyzing their rapid industrialization in the 1960's and 70's as well as their impacts on OECD countries, 13 the report points out four characteristics which are common to these countries. (1) They are pursuing for the outward-looking growth policy (which means to promote growth by exports). (2) They are increasing the shares in world industrial production and exports. (3) Domestically, they are increasing the shares of manufacturing industry in total production, total exports and total employment.

(4) They are rapidly reducing the gaps in per capita income (real GDP) vis-a-vis the industrialized countries. These are the dividing lines drawn by OECD between NICs and the other LDCs. The lines, of course, are not regarded as constant. Some may go out from the group, while others may enter into the group as new members.

Another definition is given by Balassa [1981], where he analyzed quantitatively (as in Table 5) how the NICs coped with the first oil shock and the world recession during the period 1974-1978. In the analysis, he selected as NICs the countries (1) with per capita income higher than 1100 US dollars in 1978, and (2) with the share of manufacturing industry in GDP higher than 20% in 1977. Though his terminology is not NICs but NIDCs (Newly-Industrializing Developing Countries) and his selection of countries is different a little from that of OECD [1979], his definition above seems worthwhile to be considered here.

3.2. Current Situation of ASRAN4

Key indicators for ASEAN4 corresponding to the definitions of NICs by OECD and Balassa above are summarized in Tables 6 and 7, where consistent comparisons are possible between four countries of ASEAN and most of the NICs countries in the 1979 OECD report. Let us first investigate three kinds of data on per capita GDP in Table 6. The upper part of the table shows nominal per capita GDP in US dollars converted by foreign exchange rates of each year. Malaysia, in particular, should be noted in that

As mentioned in section 2, the exchange rate conversion is misleading in the case of international comperison since it does not reflect purchasing power parity correctly. The exchange rate is not useful for overtime comperison, either, since it changes frequently. In fact, the exchange rate is devalued in most of the countries that experienced zero or minus growth in inominal per capita GDP in the first half of the 1980 s.

The middle part of Table 6 shows nominal per capite GDP in I\$ (international dollars) converted by purchasing power parities of each year. "I\$" is the unit to be used in the multi-country comparison of purchasing power parities. Its conversion rate with US\$ is one (1.0). It depreciates overtime in case of world inflation. The 1987 data for ASEAN4 are estimated approximately for reference purposes. Correct international comparison is possible at least for each year based on the data in the middle part of Table 6. In 1978, for example, relatively low income countries smong NICs were Kores (whose per capita income is 22 when US is taken as 100), Taiwan (23) and Brazil (28). Again, Malaysia (23) attained a comparable level with those countries. Thailand (14), the Philippines (13), and Indonesia (8) were far from Morea and Taiwan. In 1987, Thailand (14) and Indonesia (9) maintain its position vis-a-vis the United States almost unchanged, but the Philippines (10) decreased its relative position significantly (due to the financial crisis and its aftermath from 1983 to 1985) and became clomer to Indonesia.

The lower part of Table 6 shows real per capita GDP international dollars (I\$) at constant 1980 prices. Based on the data, consistent comparisons are possible both internationally and overtime. In other words, the absolute level of income of some country in some year can be compared directly with those of other countries in other years. For example, Korean per capita GDP in 1978 was 1\$ 2411 (at constant 1980 prices). That per capits GDP in 1987, on the other hand, reached the level of I\$ 2012 (at constant 1980 prices), which was more than 80% of the Korean level in 1978 mentioned above. In the case of Malaysia, its per capita GDP in 1987 (I\$ 3507) was almost equal to that of Taiwan in 1985 (I\$ 3581) and even higher than those of Korea and Brazil in 1985 (IS 3056 and IS 3282, respectively). As far as income level is concerned, therefore, Thailand is standing just in front of the entrance of NICs, while Malaysia is standing shoulder to shoulder with some of the NICs. Indonesia and the Philippines in 1987 attained almost the same level as Korea and Taiwan in 1970 or about a half of the level of two countries in 1978. It takes 14 years (i.e., from 1987 to 2001) for Indonesia and the Philippines to attain the level of Korea and Taiwan in 1978, even if their per capita income will grow at a rate as high as 5% steadily.

Let us next compare the structure of production, employment and exports between ASEAN4 in recent years and NICs around 1978 (See Table 7). The dividing line between NICs and other LDCs is whether or not the share of manufacturing sector in total GDP

exceeds 20% (according to Balassa's definition). Table 7 shows that all of the ASEAN4 except Indonesia passed through this line in 1986 (See Table 3 for Malaysia where the share in real terms was 22% in 1987). As to the share of industrial sectors including mining, construction, and public utilities, all of the ASKAN4 attained at least the level of Greece in 1986. As to the shere of manufacturing goods in total exports, all of the ASEAN4 except Indonesia were in the level of Mexico and Brazil in 1988 or close to the level of Singapore and Taiwan in 1977. The problem here is the employment structure. The share of industrial employment far smaller in ASEAN4 than in NICs. Though the employment data in Table 7 are only for 1981, the employment structure of ASKAN4 may be said to remain almost unchanged between 1981 and 1986 (or 1987). Judging from the data of Table 3. The only exception is Malaysia, whose share increased up to 22% in 1987 but still as low as the level of Mexico in 1978. Industrialization in ASEAN4 clearly lags behind NICs in the aspect of employment structure. This is aspecially true for the labor absorption by manufacturing industry.

So far for a quantitative investigation of the current situation of ASEAN4 in terms of the definition of NICs given by OECD [1979] and Balassa [1981]. There still remain three points to be discussed in relation with the definition of NICs. The first point is the share of manufacturing industry in both world production and exports. It is difficult or misleading to compare productions internationally due to frequent changes in exchange

rates, but the comparison of exports is easier because data for exports in US dollars are directly available. A rough calculation based on World Bank's World Development Report confirms that each of ASEAN4 countries increased its share in world manufacturing exports rapidly from 1978 to 1986 (though the level is still very small). At The second point is whether or not the ASEAN4 countries are adopting the outward-looking policy for growth. The answer is gee. All of the ASEAN4 countries changed their industrialization strategy from "import substitution" to "export promotion" around 1970 (or early 1980's in the case of Indonesia) as mentioned in section 2. Such outward-looking policy continued also during the period of structural adjustment in the 1980's. The third point is the rapid reduction of income gaps vis-a-vis the industrialized countries, on which we can see from Table 2 only for Malaysia and Thailand that per capita GDP growth in the first half of the 1980's (1980-86) was a little higher than that of the industrial economies (2.1% for Malaysia and 2.8% for Thailand versus 1.9% for industrial economy). Growth rates in recent years (1987-88) of the two countries, however, are remarkably accelerated as will be discussed later.

The conclusion which can be derived from the discussions so far is as follows. As far as the static quantitative criteria are concerned, it is small wonder that Malaysia is classified as a NIC. When industrialization in employment structure progresses further, it will be more reasonable to classify Malaysia as a NIC, but a problem seems to remain uncertain as to whether or not

Malaysia will reduce its income gap rapidly vis-a-vis the industrial economies. Thailand is now standing just in front of the
entrance to the group of NICs. However, industrialization in
employment structure lags seriously behind other aspects of
industrialization. How to prosets labor absorption in the
manufacturing industry is the most crucial problem for Thailand
towards a NIC. Whether Indonesia and the Philippines are NICs or
not seems to be the topic to be discussed at least 10 years
later. Indonesia is in the on-going process of structural adjustment towards a less oil-dependent economy, while the Philippines
is also adjusting its economic structure towards recovery and
sustained growth away from the economy which caused the debt
crisis and its aftermath. 15

and was not set folious to test countries best addenies out ale-a-ale.

3.3. Outlook of Malaysian Economy's

A favorable factor for Malaysian industrialization or economic growth in recent years is the fact that direct investment from foreign countries, especially from Japan, has been increasing rapidly since 1988.17 Approved amounts of foreign direct investment increased by 61% in 1988, by 43% in 1987, and by 200% (3 times) in the first half of 1988 compared with the first half of 1987. Total amount approved was about 280 million US dollars in 1987. Malaysian economy is recovering steadily from the negative growth in 1985, realizing 5.2% growth in real GDP in 1987 and 7.4% in 1988. Major factors for this recovery are, first, the expansion of manufacturing exports and, then, the rapid increase

in foreign capital inflows. An important characteristic of foreign direct investment in Malaysia is its fairly big impacts on employment creation. For example, the increase in employment from 1981 to 1988 was about 680 thousand in total, of which 260 thousand or 40% is said to be created by foreign investment. Regulations on investment are now being alleviated progressively in Malaysia, so that foreign capital inflows will continue at a rapid pace at least for several years. Industrialization in employment, therefore, will accelerate further in the Malaysian sconomy with total employment of only 6 million, intensifying the process towards the status of a NIC.

There are two unfavorable factors on the development of Malaysian economy. One is the weak point inherent in the economy dependent on foreign capital. Another is the future of "New Economic Policy (NEP)." Malaysian industrialization is dependent on exports of manufactured goods such as textiles and electronics which are produced mainly by joint ventures centering around free trade zones and bonded areas. Local manufacturing firms in Malaysia are not so matured even compared with those in Thailand, since Malaysia has neither a big population size nor a long history of industrialization. Production activities of joint venture firms generally take the following path: from imports of raw materials to labor intensive assembly, and then to exports of manufactured goods. Therefore, they do not have strong linkages with local industries or firms, and the value added in Malaysia consists mainly of wages only. It is the key task for

Malaysia to attain the status of NIC in the true sense of the words that the economy will strengthen the domestic basis of manufacturing industry, raising the domestic part of value added in the export industry.

Industrialization in Malaysia was promoted mainly under the government initiative in favor of the buminutra Malaysians. This is so called "New Economic Policy (NEP)." Discussions on post-NEP have been actively made since 1987. The present NEP, which was started in 1971 with the year 1990 as target, simed at (1) eradicating poverty, (2) attaining 30% of capital for bumirutes, 40% for other Malaysians, and 30% for foreigners, and (3) reallocating employment in proportion to the ethnic composition. In other words, the equity between ethnic groupe has been pursued for under government interventions probably at the cost of losing some efficiency at least in the short-run. Post-NEP is said to continue the humiputra policy, promoting growth and industrialization mainly through foreign direct investment. How to make both equity and efficiency compatible and how to domesticate industrialization seem to be the most important targets in the long run. 28 grade and always the species the result

3.4. Outlook of That Economy 18

Problem (or originality in a sense) of Thai industrialization lies in the fact that the employment share of manufacturing industry did not accompany the production share of that industry.

To other words, the manufacturing industry which produces more

Inlot to Baldiviros magnetors, Spines Windowskin to victorial head

than 20% of GDP employs less than 10% of total labor, while the agricultural sector which employs almost 70% of total labor produces only less than 20% of GDF. This implies very low level of productivity or income in the agricultural sector relative to other sectors. Or this may be interpreted as the degree of sacrifice which the agricultural sector offered for the sake of other sectors by maintaining a vast amount of underemployed labor in the rural area. In Thailand, the problem of income distribution has been one of the most important issue to be resolved since the third five-year economic plan (1972-78), and the government actively implemented various policy measures such as promotion of rural industries, regional dispersion of industrial location, assistance to small scale industries and so on in order to reduce income gaps between rural and urban areas and also between regions. The main purpose of these policy measures may be said to promote the absorption of surplus or low-income labors in agriculture by the non-agricultural sectors, especially by the manufacturing industry.

This problem is related with a new proposal made in the sixth economic plan (1987-91): NAIC (Newly Agro-Industrializing Country). It means an export-oriented country centering around agriculture, fishery and livestock, and their processing (i.e., agro-industry). Thailand succeeded in diversifying agricultural products for exports, and is now a major food-exporting country. NAIC is the strategy along this line but seeks more value added by further industrialization in exports. This strategy seems to

be suitable for the Thai economy which maintains still a huge rural population, reflecting the Thai character of balanced economic management siming at slow but steady progress. The strategy towards NAIC, however, is regarded as transitional and partial, since agro-industries have only weak linkages with other industries and their impacts on technology accumulation are relatively small. The government of Thailand aims at becoming a NIC in the long run, and the machinery industry is also emphasized as a strategic one in the sixth sconomic plan.

The That economy has been growing steadily since the trough in 1986. Its growth rate in GDP was 7.1% in 1987 and 10.5% in 1988. This rapid expansion of the Thai economy was led mainly by exports and the export expansion is caused by rapid increases in foreign direct investment as in the case of Malaysian economy (or more than that). Applied amounts of foreign investment in Thailand increased by 67% in 1986, by 360% (i.e., 4.6 times) in 1987, and by 200% (i.e., 3 times) in the first half of 1988 relative to the first half of 1987. Total amount of applied foreign investment (incorporating also local capital) was 6.5 billion US dollars in 1987. Among foreign investors, Japan was dominant in value, but Taiwan attained the highest growth in terms of number. In the case of Japanese investment, its destination covered a wide range of industries such as electric appliances, electronics, transportation equipments, metal products, textiles, agricultural and fishery products, and so on. Furthermore, 3/4 of its applied applications were export-oriented ones with . export

ratios ranging from 80% to 100%. In the case of Taiwanese investment, it concentrated on labor intensive, export-oriented, light-industy products such as sports goods, shoes, bags, etc., in which Taiwan has lost its international competitiveness. It must be noted that those foreign direct investments are now shifting their locations from Sangkok to remote prefectures in accordance with the changing investment incentives, by which the Thai government attempts to avoid excessive concentration in Bangkok area and to realize belanced development between regions.20

Manufacturing industry surpassed agricultural sector in terms of production in 1984 and in terms of exports in 1985. As to the structure of employment, agricultural labor maintained its share constantly around the level of 70% until 1984, but the share began to decrease from 1985 and is a little over 60% now. Foreign investment boom in recent years will surely accelerate this declining tendency. The Thai economy seems to be dashing towards the entrance of NICs with dynamism, having passed through the so to speak 'turning point' in the theory of dualistic development.21

Carolina de la companya del companya de la companya del companya de la companya d

sullers to english the second on any subject of the second

FOOTNOTES

- 1. The two remaining member countries of ASEAN, i.e., Singapore and Brunei, are not allowed for here, because the former already belongs to the group of NICs and the latter, which joined ASEAN in 1984, is a very small country with the population of only 230 thousand (but with the income more than 15,000 US dollars due to cil).
- 2. See Lewis [1954], Jorgenson [1981], Fei and Ranis [1964], etc. for the theory of dualistic development. See Yasuba [1980, Ch.5] and Watanabe [1986] for the dualistic analyses of Japanese and Asian development, respectively.
- 3. Riddle [1986], for example, emphasizes service-led growth, but the possibility that the service sector becomes a dynamic engine for development seems to be small since most of its products are non-tradables and its technological dynamism is not so strong as in the industrial sector. See Yoshihara [1985, Ch.5] for the importance of technology and trade in economic development.
- 4. See Watanabe [1989, Ch.4] for the details of this mechanism.
- 5. Ichimura [1988] classifies Asian economic development into five types: (1) resource-poor NICs, (2) resource-rich ASEAN4, (3) agricultural South Asia, (4) gigantic China and India, and (5) socialist countries, proposing different development strategies for different types of economies. The analysis of this paper is similar to the strategy proposed for the resource-rich ASEAN4.
- 6. Data for Asian NICs are obtained also from the PC diskettes of Summers and Heston [1988].
- 7. The income disparity between countries of this class may not be surprising if we consider the domestic income disparity between poor and rich households. Average income of the top quintile is, approximately, four times of that of the bottom quintile in Japan, eight times in the United States, more than ten times in Thailand and the Philippines (See Limskul and Ikemoto [1986] and Habito [1988]).
- 8. Countries with average annual growth rate of GDP exceeding 5% for 1980-86 are only eight in number such as China (10.5%), Pakistan (6.7%), Korea (8.2%), Hong Kong (6.0%), Singapore (5.3%), etc.
- 9. See, for example, Yamazawa and Hirata [1987] for the details.
- 10. Such production process is limited also in the linkages with other domestic industries and the extent of technology transfer. Malaysia faces more or less the same problem.

- 11. Note that experts of tin or copper ores and concentrates are classified as SITC 28 but those of their products as SITC 68. Most of SITC 68 in ASRAN4 may be regarded as primary commodity exports.
- 12. Such adjustments are large enough to reduce external debts or to increase external assets. The decomposition analysis for the 1980's seems to be quite interesting and important especially for Indonesia and Malaysia, which faced severe external shocks caused by drastic declines in oil and other primary commodity prices.
- 13. The OECD report of 1879 analyzes the development of NICs from the point of view of the challenge and menace to OECD countries in production and employment. The report, however, reaches a conclusion that OECD gained more than lost due to positive effects of interdependence. On the other hand, an interesting point in the recent report (OECD [1988]) is the analysis based on the theories of dynamic comparative advantage and product cycle that the challenge of NICs is caused partly by OECD itself through direct foreign investment.
- 14. The following approximate shares are obtained by combining the data of 1980 and 1988 issues of World Development Report:

Indonesia Malaysia	(1978) 1.02% 0.65	0.73	0.03%	(1986) 0.24% 0.37
Philippines Thailand	0.30	0.25	0.12	0.21

- 15. For the analysis of Indonesian economy, see Bulletin of Indonesian Economic Studies ("Survey of Recent Developments," each issue), Ichimura [1988], JETRO [1988], Yamazawa and Hirata [1987], etc. For the analysis of Philippine economy, see De Dios [1984], Montes and Koike [1988], Montes and Sakai [1989], Habito [1989], JETRO [1988], Yamazawa and Hirata [1987], and so on.
- 16. For the analysis of Malaysian economy, see Horii and Hagiwara [1988], Khor Kok Pen [1987], Kamal Salih [1988], Yamazawa and Hirata [1987], Igusa [1988], MITI [1988], JETRO [1988], etc.
- 17. Numerical data below are obtained mainly from JETRO [1989].
- 18. According to Balakrishnan [1989], ethnic problems or ethnic elements in NEP are exaggerated in connection with the political stability in Malaysia.
- 19. For the analysis of Thai sconomy, see W. Warin and Y. Ikemoto [1988], TDRI [1988], Harada [1988], Suehiro and Yasuda [1987], Yamazawa and Hirata [1987], MITI [1988], JETRO [1988], Bunyaraka Ninsananda [1988], and so on.

- 20. Numerical data above are obtained mainly from JETRO [1989].
- 21. Warr and Bandid [1987] reviews eighty articles by the Thai authors on the Thai economy which were made public up to the year 1986. A consensus view among those Thai economists (until 1986) seems to have been "Thailand is definitely neither a NIC nor a near NIC."

animated of benister are parent formations animated act

Efrongel and the land of the second of the s

IS.0 81.44 STOR STORY STORY STORY STORY

th. Yes the analysis of laboration account, dos fill bring of in-

Top blue norly by the company, see Sort with the company of 19881, Year 1987, Year or and

the to manufact of the same temperature of the property of the same of the sam

AD to bee a TOTAL account the second of the

the second of Subject to the control of the control

Politicalism CC.G mentagetited

(1950) The contract the section of the contract of the contrac

REFERENCES (with * in Japanese)

[1] Asian Development Bank, Key Indicators of Daveloping Member Countries of ADB, various issues.

[2] Australian National University (Department of Economics), Bulletin of Indonesian Roomenic Studies, Various issues.

[3] Bela Balassa, "The Newly-Industrializing Developing Countries after the Oil Crisis, "Waltwirtschaftliches

Archiv, Band 117, Heft 1, 1981, pp.142-194.

Review, 7 September 1989, pp.96-100.
[5] Robin Broad and John Cavanagh, "No more NICs," Far Eastern Economic Review, 9 February 1989, pp.56-57.

[8] Emmanuel S. De Dios (ed.), An Analysis of the Philippins Economic Crisis, University of the Philippines Press, 1984.

[7] J. C. Fei and G. Ranis, Development of Labor Surplus

Economy: Theory and Policy, Homewood: Irwin, 1964.
[8] C. F. Habito, "Direction for Philippine Tax Reform." The Manila Chronicle, November 10, 1988.

[9] C. F. Habito, "Economic Policies and the Agricultural Sector: A General Equilibrium Analysis, " Paper presented at the Symposium on Quantitative Analysis of Agricultural Development, PIDS-NEDA, August 18, 1989.

[10]* Yutaka Harada, Introduction to Thai Economy, Nihon Hyoron Sha, 1988.

[11]* Kenzo Horii and Yoshiyuki Hagiwara (eds.), Social and Economic Changes in Modern Malaysia, Institute of Developing Economies, 1988.

[12] Shinichi Ichimura (ed.), Indonesian Economic Development: Issues and Analysis, Japan International Cooperation

Agency, May 1988.

[13] Shinichi Ichimura, "The Pattern and Prospects of Aslan Economic Development," in S. Ichimura (ed.), Challenge of Asian Developing Countries: Issues and Analyses, De Asian Productivity Organization, 1988.

[14] Shinichi Ichimura and Mitsuo Ezaki, "An Economic Overview of East Asia," in H. J. Ellison (ed.), Japan and the Pacific Quadrile: The Major Powers in Rest Asia,

Wastview Press, pp.55-79.

[15]* Kunio Igusa (ed.), Economic Planning in ASEAN, Institute of Developing Economies, 1988.

[16] IMF, International Financial Statistics, various issues.

[17]* JETRO, Directions and Prospects of Economic Policies in Asian Countries: ASEAN-5, JETRO, March 1988.

[18]* JETRO, Oversess Direct Investment of World and Japan: 1989, JETRO, 1989. [19] D. W. Jorgenson, "The Development of a Dual Economy,"

Economic Journal, Vol. 71, June 1961.

[20] Khor Kok Peng, Malaysis's Economy in Decline, Consumers'

Association of Penang, 1987.

[21] P. W. Kuznets, "Response to External Shooks: Japanese and Morean Experience since 1973," Paper presented at the Seminar on Comparative Economic Development in Japan and Korea, Tokyo, 15-16 March 1985.
[22] W. A. Lewis, "Reonomic Development with Unlimited Supplies

of Labor, " Manchester School of Economics and Social

Studies, May 1954.

[23] Kitti Limskul and Yukio Ikemoto, "Income Distribution and Roonomic Development -- A Comparative Study of Thailand and Malaysia -- , " JRP Series 57, Institute of Developing Economies, March 1988.

[24]* MITI, Current Situation and Problems of Japanese Economic

Cooperation, MITI, 1988.

[25] M. F. Montes and K. Koike (eds.), Roomonic Policies and Enterprises in the Philippines, Institute of Developing Economies, Tokyo, 1988.

[26] M. F. Montes and H. Sakai (eds.), Philippine Macroeconomic Perspective: Development and Policies, Institute of

Developing Economies, Tokyo 1989.

[27] S. Naya, D. H. Kim and W. James, "External Shocks and Policy Responses: The Asian Experience, " Asian Development Review, Vol.2, No.1, 1984, pp.1-22.

[28] W. James, S. Naya and G. M. Meier, Asian Development: Economic Success and Policy Lessons, University of

Wisconsin Press, 1987.
[29] Bunyaraks Ninsananda, "The Structural Adjustment for Sustainable Growth, The Case of Thailand," Paper presented at Asian Development Symposium held on November 7-8, 1988.

[30] OECD, The Impact of the Newly Industrializing Countries,

OECD, 1979.

[31] OHCD, The Newly Industrializing Countries: Challenge and Opportunity for OECD Countries, OECD, 1988.

[32] Dorothy I. Riddle, Service-Led Growth: The Role of the Service Sector in World Development, Praeger, 1986.

[33] Kamal Salih, "Structural Adjustment for Sustainable Growth: The Case of Malaysia," Paper presented at Asian Development Symposium held on November 7-8, 1988.

[34] * Akira Suehiro and Yasushi Yasuda (eds.), Industrialization of Thailand: Challange to NAIC, Institute of Developing

Economy, 1987.

[35] R. Summers and A. Heston, "A New Set of International Comparisons of Real Product and Prices: Estimates for 130 Countries, 1950-1985," The Review of Encome and Wealth, Series 34, Number 1, March 1988 Cpp. 1-25.

[36]* Thailand Development Research Institute, Transformation of Thailand into a Newly Industrializing Country, (NIRA

OUTPUT, NRS-85-2), NIRA, May 1988.

[37]* Noriyoshi Torigoe, "Economic Development of Thailand -- A Comparison with the Philippine Economy --, " Journal of Overseas Investment, Export-Import Bank of Japan,

Vol.12, No.6, June 1986, pp.43-77. [38] UN Commission of the European Communities, "World Comparisons of Purchasing Power and Real Product for 1950: Phase IV of the International Comparison Project," ST/BSA/STAT/SER.F/42, United Nations, 1986. [39] Peter G. Warr and Bandid Nijathaworn, "Thai Economic Performance: Home Thai Perspectives, " Asian-Pacific Francosia Literatura, Vol.1, No.1, May 1987, pp.80-74. [40] Warin Wonghanchao and Yukio Ikemoto (eds.). Economic Danteloppens Policy in Theiland: A Historical Review. Institute of Developing Economies, 1988. [41]* Tombio Watamabe, Development Economics: Economics and Modern Asia, Nihon Hyoron Sha. 1986. [42]* Toshio Watanabe, The Ase of Western Pacific: Political Backney of Mew Acian Industrial States, Bunget Shunju Sha, 1989. [43] World Bank, "Price Prospects for Major Primary Commodities," [44] World Bank, World Dayslorment Report, various issues. [45]* Ippel Yamazawa and Akira Hirata, Industrialization and Expans Proposion Policies in Developing Countries, Institute of Developing Economies, 1987.

[45]* Yasukichi Yasuba, Economic Growth, Chikuma Shobo, 1980. [47]* Yasukichi Yasuba, "Dualistic Structure," in Yasuba and Ezaki (eds.), Economic Development, Sobun-sha, 1985. [48] Yasukichi Yasuba, de "ASEAN: Background and Prospect,"

(forthcoming in Osaka Economic Papers).

[49] Kunio Yoshihara, Philippine Industrialization: Foreign and Domastic Capital, Oxford University Press and Ateneo de Manila University Press, 1985. [50] Kunio Yeshihara, The Rise of Ersatz Capitalism in South-East

Asia, Oxford University Press, 1988.

and it was an arrange becomes it assessed a real to be the consensual temporary and Eco. C. >
University of the Palippines System School of Economics Library and the results of the School of Schoo Diliman, Quezon City with Tallactic to the state of the s

THE REAL PROPERTY AND THE PARTY AND THE PART

25

Table 1. Basic Endicators of ASEAN4

AND THE RESERVE	Indonesia	Halaysia	Philippines	Thailand	(Total)	lapan	USA
Area	1,919	338	369	514	3,863	372	9,353
[1000 km2] .	(20)	(4)	(3)	(5)	(23)	(4)	(100
Population (mid-		16.5	57.4	53.6	259.7	122.1	243.8
1987) (millions]	(71)	(1)	(24)	(22)	(122)	(50)	(100
CDP(1987)	73.90	31.0	34.5	47.7	187.2	2,385.8	4,435.8
[billion USs]	(2)	(1)	(1)	(1)	(4)	(54)	(100
For capita GDP	429s	1877	603	880	625	19,541	18,301
(1987) [US\$]	(2)	(10)	(3)	(5)	(1)	(107)	(100)
Door Fee District							1 9150
Exchange rate	1125.0	2.480	18.700	27,159	-400	*** **	
(1985)	[Rp/US\$]	[MS/US\$]	(P/SS\$)	[B/US\$]		238.54 [%/85\$]	2 4 5
Parchasing power	361.9#	1.196	5.549	8.753		230.36	1.0
parity (1985)	[Rp/ 15]	(NS/ IS)	[P/ IS]	[8/ 15]	directly.	[#/ [\$]	[05\$/1\$
Deviation rate (PPP/ER)	.3209	.4822	.3502	.2221		.9657	1.0
CDP (1985)	84.0	31.3	32.8	26.3	185.4	1,325.2	3,970,5
Chillian OSSI	(2)	(1)	(1)	(1)	and China though the con-	(33)	(100
GDP (1985)	261.78	64.8	93.6	119.0	539.1	1.372.3	3,970,5
[billion IS]	(7)	(2)	(2)	(3)	(.24)	(35)	(100
Per capita CDP	509	1,953	599	745	649	10,793	16.057
(1985) [US\$]	(3)	(12)	(4)	(5)	(4)	(\$7)	(100
Per capita GDP	1.585\$	4,050	1.710	2,310	1.577	11,176	16.057
(1985) [1\$]	(10)	(25)	(11)		(12)	(70)	(100

Notes: IS means 'international deliar.' It is a theoretical measuring unit to be used in the multi-country communicans of purchasing power parity (PPP) and its conversion rate with USS is one (1.8). PPP-related data are derived from the PC diskettes which corrrespond to Tables 1 and 2 in Summers and Heston [1988]. Numerical figures with 8 for indonesia are estimated approximately by the author based on the PPP data for 1980 compiled by UK Commission of the European Communities (See UNCEC [1988]) as well as un the GDP deflators of Indonesia and USA. The 1987 GDP of indonesia (with *) is also an estimation by the author based on the published data on growth rates.

Table 2. Growth Portorenace of ASEARS (Average Assembl Rates of Growth, 20

		GDP		64	ricult	ure	1	ndustr	y	Mane	factor	ing	5	ervice	0	Popul	ntion
	40 mm o			70 per o	- 60 to 1					AT 40 0			** ** *				- 10 14
	1950	1970	1950	1980	1979	1980	1980	1970	1980	1050	1970	1960	1960	1970	1380	1885	1980
	-70	+30	-88	-70	-60	-86	-70	-80	-86	-70	-80	-36	-70	-80	+88	-80	-3
																m ++	- +
Indonenia	3.9	7.5	3.4	2.7	3,8	3.0	5.2	11.1	1.8	3.3	12.8	7.7	4.8	9.2	5.6	2.3	2.
Salaysia	6.8	7.4	4.8	4.4	5.1	3.0		9.7	6.0	- 100	3115	5.6	1.0	8.2	4.5	2.5	2.
bilippines	5.1	6.3	-1.0	4.3		2.0		8.7				-1.7	8.2	5.4	-0.6	2.5	2.
hailand	0.4	7.2	4.6	5.6	4.7	2.9	11.9	10.0	5.0	31.4	10.6	5.2	9.1	7.3	5.8	2.7	2.
lapan	10.9	5.0	2.7	4.0	1.1	1.0	10.3	5.5	5.0	11.0	5.4	7.8	11.7	5.5	2.3	1.2	0.
I.S.A.	4.3	3.0	3.1	0.3	1.2	3.0	4.9	1.2	3.2	5.3	2.9	4.0	4.2	3.2	3.0	1.0	1.
on-incase e.	4.4	3.5	2.9	2.5	2.2	2.0	7.0	3.2	4.2	6.5	3.6	4.4	4.2	4.5	3.3	2.7	2.
bina & India	4.5	4.9	8.5	1.8	2.8	5.7	8.3	8.6	11.3			11.7	3.8	4.5	7.8	2.2	1.
id-income e.	5.9	5.5	2.3	3.5	2.9	2.3	7.4		2.1	6.8	6.4		5.4	5.9	7.5	2.4	
ndustriai e.	5.2	3.2	2.5	1.4	1.4	2.5	5.9	3.1	2.5		3.2		4.8	8.5	2.6	0.5	72

Notes: Data source is <u>Verid</u> Development Report of World Cank, i.e., the 1982 issue for 1980-70 and 1970-90, and the 1988 issue for 1980-86. 'Industry' consists of mining, manufacturing, construction, and electricity, gas and water. 'Low-income economies' here do not include China and India.

Table 3. Structural Changes of ASEAN4 (Overtime Changes in Shares, I)

	I	máone	514	25	alays	14	Ph	liippi	268		Th	mailan	d
	1976	1960	1988	1970	1980	1987	1970	1980	1967		1970	1980	1986
COP (nominal)													
Agriculture	47	25	26	32	22	- 22	- 16	23	- 25		28	25	17
Industry	18	43	32	25	56	39	30	37	32		25	29	34
Minime	5	25).I	6	10	-11	3	3	7		2	2	3
Manufactuzing	9	12	34	12	20	22	22		25		15	20	23
Services	55	32	42	43	41	40	43	40	43		48	46	49
Esployment Asriculture													
		56	55	53	37	32	54	51	48			71	57
Mining'		1	1	3	1	1	11	- 1	1	14		6	0
Manufacturing		9			15	16	12	11	10			8	8
Others			27	25	46	52	24	37	41			21	25
(Industry)		(13)	(13)	()	(19)	(22)	()	(15)	(15)			(10)	(11)
Exports (f.c.b.)													
SITC 0-2,4	52	22	24	5.5	42	38	85	60	52		77	76	60
SITC 3	31	74	56	7	28-	28	2	-1	2		.0	1	. 0
SIIC 5-8	2	4	20	26	28	42	9	24	36		16	20	35
(SITC 7)	(0)	(1)	(1)	(2)	(11)	(28)	(0)	(2)	(10)		(0)	(6)	(11)
SITC 9	5	0	0	1	1	1	4	16	30		7	4	5
mports (c.i.f.)													
SITC 0-2.4	14	12	14	29	16	15	16	12	13		10	10	13
SITC 3 . 7 6 =	1	16	10	12	15	7	11	28	15		9	31	13
S1TC 5-8	73	57	75	58	58	77	89		47		77	55	71
(SITC ?)	(30)	(34)	(38)	(28)	(35)	(45)	(34)	(24)	(17)		(35)	(23)	(31)
SITC 9	. 11	0	0	1	1	1	2	11	22		4	3	2
xpenditures/GDP				(cenn)								mare term	
			**	(1973)			-		-				(1987
Private consumption Cov. consumption	81	61		55	51	47	70	67	73		68	64	64
	9 .		12	15	17	16	8	8	8		12	12	13
Gress investment	14	21	26 21	42	32 58	24 63	21	31 20	15 23		26	27	23
Exports													

Hotes: Data source is Asian Development Bank, Ker Indicators of Developing Kember Countries of ADB (various issues). Data for industrial employment with brackets are obtained from World Bank's Morid Development Report and various statistical yearbooks of each country. Sectoral GDP for Malsysia in 1980 and 1987 is obtained by calculation based on real values at constant 1978 prices due to the lack of nominal data. Expenditure shares for thre Philippines and Thailand do not add up to one due to statistical discrepancies.

Table 4. Correlation Coefficients between Growth Rates of GDP and Rates of Changes in Primary Commodity Prices

1985-87 1985-87 1985-70 1971-80 1981-87	0.400 0.283 0.258	0.388 6.540 0.227 0.294	(1) (2) (3) (4)	petroleus wood rubber ceffee	.808 .088 .058 .024
1965-87 1965-70 1971-80 1981-87	0.283 0.219 0.258	6.540 6.227 6.294	(2) (3) (4)	wood rubber coffee	.058 .024
1965-87 1965-70 1971-80 1981-87	0.283 0.219 0.258	6.540 6.227 6.294	(2) (3) (4)	wood rubber coffee	.058 .024
1965-70 1971-80 1981-87	0.283 0.219 0.258	6.540 6.227 6.294	(2) (3) (4)	wood rubber coffee	.058 .024
1965-70 1971-80 1981-87	0.283 0.219 0.258	6.540 6.227 6.294	(2) (3) (4)	wood rubber coffee	.058 .024
1971-80 1981-87	0.219 0.258	0.227	(3)	rubber ceffee	.058
1971-80 1981-87	0.219 0.258	0.227	(4)	coffee	.024
1981-87 <	0.258	0.294 E E E			
~				. 1.	
Kiloysia	0,598				
and the same of th	0.598				
	0.598			No.	
1971-87		0.669	(1)	rubber	.271
			111111111111111111111111111111111111111	tin	. 155
1971-80	0.441	0.573	1000000	logs	.176
1981-87	8.554	0.555		pals oil -	.165
				petroleus	.233
				100	
Philippines					
1961-87	0.174	0.069	(1)	coconut sil	.221
			(2)	copper	.209
1961-70	0.445	0.475	(3)	logs	.136
1971-80	-0.058	-0.029	(4)	15302	.361
1981-87	-0.040	-0.205	(5)	copra	.073
74 D 25 1					
Thailand					
1961-87	0.282	0.345	(1)	rice	.363
			(2)	tapioca	-
1961-70	0.869	0.534	(3)	rubber	.223
1971-80	0.121	0.156	(4)	tin	.177
1981~87	0:848	0.852	(5)	maize	.237

Notes: 'Nominal' price index for primary commodities in each country is the weighted average of price incomes (in INF's International Financial Statistics) of five major export commodities selected as representative in each country. Weights for aggregation shown above are averages of export shares in 1975 and 1980. 'Real' price index is derived by deflating nominal index by manufacturing unit value index of World Bank [1988, Table 5]. Data for CDP growth rates and export shares in each country are obtained from ADB' Key Indicators (various issues). Data for tapioca of Thailand are not available, so that its weight is set to be zero.

21211	Balas	es of Parment	s Effects	Palicy Responses or Adjustments							
	Teres of trade affects	volume	Total external shocks	Increase in export market share	substi- tution	Reduction in imports through lower GOP grawth					
Ipdonesia											
(A) 1974-82	83.6	16.4	100.0-[20.6]	2.3	-1.1	0.5	-101.7				
(8) 1974-83	110.0	-13.0	100.0 [13.2]		-20.0	4.0	-101.0				
Malaysia						1-4	101.0				
(A) 1974-82	71.6	28.4	100.0 [6.4]	29.9	-25.4	4.3	-118.8				
Philippines					98-30	***	****				
(A) 1974-82	-75.1	-24.9	100.0 [-14.5]	17.5	2.3	-2.5	82.3				
(B) 1974-53	-76.7	-23.5	100.0 [-18.6]	0.0	0.2	0.4	99.2				
Thuiland	30-5-70-0	Withham a c					1.0016				
(A) 1974-82	-90.1	-9.8	100.0 [-15.2]	25.5	8.6	2.8	63.4				
(B) 1974-83	-73.4	-26.6	100.0 [-12.0]		25.1	2.4	55.4				
Section 2017			44.1	1000	25.5	(6.55)					
Singapore											
(A) 1974-82	-98.1	-1.9	100.0 [-45.3]	87.0	-61.8	17.5	57.2				
Korea			11								
(A) 1974-82-	-83.2	-15.8	100.0 (-13.3)	104.5	17.1	4.6	-26.2				
(8) 1974-83	-74.0	-25.0	100.0 [-6.9]	89.0	135.0	-27.0	-92.0				
(C) 1973-83	-39.0	-11.0	100.0 []	60.0	27.4	12.0	-19.0				
Taiwan -							33				
(A) 1974-92	-43.8	-56.2	100.0 [-24.8]	132.9	18.3	10.5	-62.7				
(B) 1974-83	-41.0	-59.0	100.0 (-6.5)	10.0	33.0	131.0	-75.0				
Brazil ' /											
(8) 1974-83	-82.0	-18.0	100.8 [-2.7]	15.6	67.6	-10.0	27.0				
Mexico											
(8) 1974-83	-83.0	-37.0	100.0 [-1.3]	-28.6	-102.0	25.0	205.0				
11 14 11 14											
/арад											
(C) 1973-83	-07.0	-13.0	100.0 ()	28.0	41.9	83.0	-54.0				

Notes: See Balassa (1981) for methodology of the decomposition formula. Results (6) are derived from Maya, Kim and Jases (1984), while (8) from Torigoe (1986) and (C) from P. Kuzmata (1985).

Table 6. Comparisons of Par Capita GDF: ASEAN4 versus NICs

Coxes of any 11 mg		tues .					
Comparison by ER	10000	CUSS in c	BETTERL BEL				rates, 2)
(exchange tate)	1970	1239	2560	1985	1967	1970-80	1980-85
Indepesta		***		~~~~			
Malaysia	75		430	109	429		
Philippines	318	1185	1718	1152	1877	15.4	
Deilan	202	536	732	533	807	15.3	
	180	525	723	145	830	14.9	0.7
Singapore	915	3213		8529		17.8	12.7
	255			1580		19.1	5.3
Taiwan	384	1528	2252	3027		19.4	6.1
Brazil	455	1798	2059	1733		16.3	-3.4
Mexico	722	1563	2685	2247		14.0	
Greece	1120	3352	4174	3357		14.6	
Spain	1090	3954	5879	4044		17.9	-5.2
Comparison by PPP		(15 in cor	rant price	(3		(Growth	rates, I)
(purchasing power)	1970		1380	1985	1987		1980-85
							2300-03
-Grandannin	935	11626	1895	1589	1719	13.3	7.1
(82-100)	(8.0)			(10)		14.4	
Halaysia	785	2185	3112		4481		
(US=100)	(15)	(23)	(27)			10.0	5.4
Philippines	572	1228	1551		(24)	5374.5	
(89×100)	(12)	(13)	(14)		1841	10.5	2.0
Institut	550	1322		(11)	(10)	320060	
(03-100)			1694	2310	2589	11.9	6.4
Singapore	(11)	(24)	(15)	(14)	(14)		
(05=100)	1557	4312	5817	11183		14.1	14.0
Korea	(32)	(45)	(51)	(70)			
(US=100)	506	2076	2369	3724		14.5	9.5
	(13)	(22)	(21)	(23)			
leivan	770	2212	2921	4422		24.2	8.6
(US=106)	(16)	(23)	(26)	(28)			
Brazil	885	2544	3356	3979		14.3	2.5
(US=100)	(81)	(26)	(29)	100000		3350	
Mozice	1517	3084	4333	4739		11.1	1.8
(US=100)	(31)	(32)	(38)	(30)			*
Grasce	1425	3565	4327	5700		11.5	5.4
(US=100)	(31)	(37)	(38)	(38)		34.0	3.4
Spain	2251	6777	6131	7879		16.5	
(US=106)	(47)	(50)	(54)	(49)		16.2	2.3
Comparison by PPP	(1	S at const.	(at 1980 m	riese)		(Growth r	
(purchasing power)	1970	1978	1985	1005	1057	1970-80	
				2002	2501	1919-60	1306-93
Indonesia	643	982	1096	1223	3.254		
	1525					5.5	2.2
	1094		3112	3412	3507	7.4	
Thailand			1551	1361	1385	3.8	
	1065	1220	1694	1300	2012	4.3	
Singapure	2403	4986	5817	9834		7-2	11.1
.Xorea		2411				7.1	5.2
Taiwann		2635				6.8	6.2
Brazil	1782	3030	3355	3282		8.5	
Mexico	3083	2872	4333	3385		3.5	
Greece .	2952	4262	4383	4484		4.0	
Spain		5582		6437		3.4	1.0
				2001		4.9	2.6

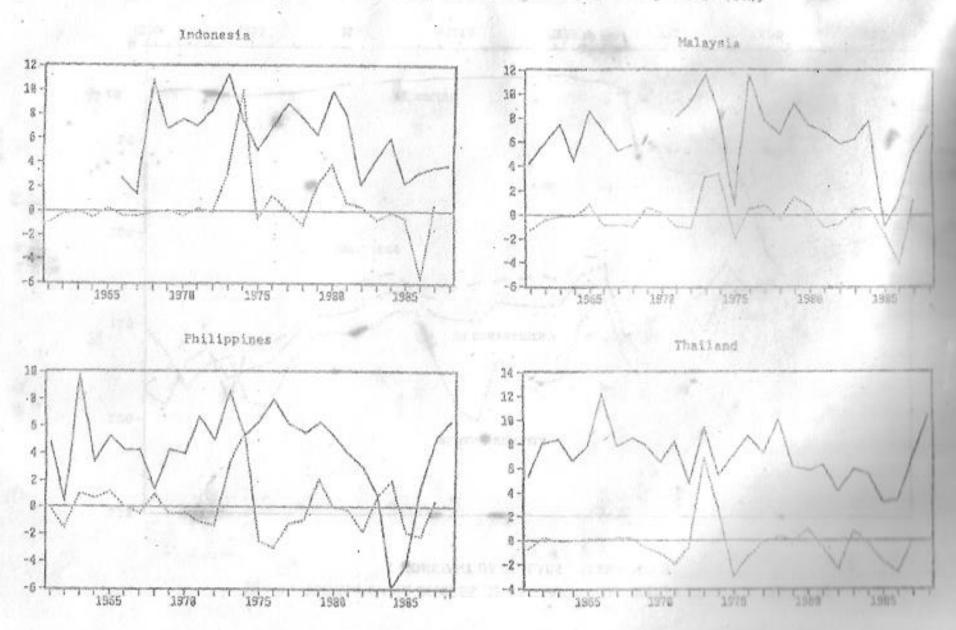
Notes: IS (international dellar) is a theoretical concept to be used in the multi-country comparison of purchasing power parity (PPP). Its conversion rate with USs is one (1.0). PPP-related data are derived from Summers and Heston (1888). Data for Indonesia are extrapolated by using CDP deflators based on the 1880 PPP compiled by UNCEC (1986). Data for other ASEAN countries in 1987 are extrapolated similarly based on the 1985 PPPs.

Table 7. Comparison of Production and Export Structures: ASEAN4 versus NICs

Notes: Numerical figure with * on Malaysian GDP is for 1984. Data for 1986 are derived from the 1988 issue of World Bank's World Development Report, while those for 1977 or 1978 from the 1980 issue, and those for 1981 on labor from the 1985 issue.

Spain

Fig. 1. Rates of Growth of GDP (2) versus Rates of Changes in Primary Commodity Prices (10%)



-Real GDP --- Real price index of primary commodities

