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Mora, Jesse; Singh, Nirvikar

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Trade Productivity Upgrading, Trade Fragmentation, and FDI in Manufacturing: The Asian Development Experience

Jesse Mora Nirvikar Singh

Department of Economics University of California, Santa Cruz

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Abstract

This paper examines the experience of 10 Asian countries with respect to growth, trade and FDI. It explores relationships between the nature of exports and imports and growth, as well as the relevance of FDI as a channel for these relationships. We find that FDI is often positively correlated with higher productivity levels in exports and imports. The effect for imports is particularly apparent for imported intermediate goods, reflecting the emergence of greater trade fragmentation. In turn, both imported intermediates and exports that are associated with higher productivity levels are positively correlated with per capita GDP. This paper therefore brings together empirical evidence that integrates discussions of FDI, trade fragmentation and improvements in the productivity of traded goods.

Keywords: international trade, trade policy, product upgrading, trade fragmentation, vertical specialization, FDI and economic development

JEL Codes: O1, O24, F14, O33

Trade Productivity Upgrading, Trade Fragmentation, and FDI in Manufacturing: The Asian Development Experience

Jesse Mora Nirvikar Singh

I. Introduction

From 19th century arguments about infant industry protection to recent exercises such as the World Bank's well-known "East Asian Miracle" study, the various aspects of globalization in economic development have been endlessly analyzed and debated. Studies typically focus on different aspects of globalization, such as exports alone, or FDI alone, and use different empirical methodologies. For example, Rodrik (2006) stresses the role of exports that exceed (in a precise manner that we will define later) their "expected" productivity level, in explaining China's growth success. While there is a specific and precise measure of export productivity in Rodrik's analysis, his discussion of the positive role of FDI is brief and informal. On the other hand, Borensztein et al. (1998), for example, examine the impact of FDI on growth through cross-country regressions, finding that a positive impact depends on factors such as having sufficient levels of human capital in the recipient countries. But they have no role for trade in their empirical specifications.

Of course, there are many studies that examine trade and FDI together. In theoretical modeling, the two are bound together, either as substitutes or as complements, depending on the nature of production networks and the associated FDI. Even in these cases, however, empirical examinations based on this theoretical modeling do not seem to treat trade and FDI in an integrated manner. This comes out in the literature reviews of Saggi (2002) and Keller (2009), for example. This problem cannot be solved completely, because trade and FDI data are available at very different levels of granularity. Nevertheless, our analysis makes some progress

in providing a more coherent and consistent empirical examination of trade and FDI in relation to economic development.

Examinations of trade and productivity have recently begun to focus on imported intermediate goods, in contrast to the earlier emphasis on exporting as a driver of productivity and growth (e.g., Goldberg et al., 2009). Clearly, the nature of this trade is partly related to patterns of FDI, to the extent that it is driven by trade fragmentation or vertical specialization (though it need not be). These studies are typically micro-level analyses, using plant or firm level data, and do not consider the role of FDI. Again, our approach allows us to explore the possible linkages between FDI and trade fragmentation in an empirically consistent manner.¹

Our central empirical tool is the Hausmann, Hwang, and Rodrik (2007) index of export productivity (also used by Rodrik, 2006), called EXPY. The precise index is described in Section III. This index measures the extent to which the export pattern of a country reflects the export of goods that have productivity levels that can be associated with higher income countries. We follow Hausmann et al. (2007) in examining the behavior of this index over time, and its relationship to per capita GDP. Our contribution here is to extend their approach to a longer time period for a specific set of countries.

We go on to adapt the EXPY index to measure the productivity level of imports. This is an innovation that allows us to examine how the other side of trade flows can matter, and also connects more directly to the role and impact of inward FDI. We are able to divide imports into intermediates and other goods, allowing us to distinguish their different possible roles in development, as well as different possible relationships to FDI. In sum, our approach allows us to examine the productivity patterns of exports and imports in relation to income levels and FDI flows.

¹ For an overview of the evolution and role of FDI in East Asia, see Urata (2001).

Our empirical contribution can be viewed in the light of the ongoing debate about the role of trade (and government policy toward trade and industry) in the East Asian miracle:

The East Asian Miracle (World Bank 1993a) ...study puts strong emphasis on the importance of performance in manufactured goods exports. The study goes beyond simply arguing that rapid export growth played an important role in permitting East Asian economies to avoid foreign exchange constraints. It suggests that exports and export policies played a crucial role in stimulating growth. The authors challenge the view that simply striving for a neutral incentive structure was adequate. Instead, they advocate broad government support for exports as a "highly effective way of enhancing absorption of international best practice technology [and] thus boosting productivity and output growth."... Although the study emphasizes exports as a channel for learning and technological advancement, conspicuously absent is a discussion of the role of imports and import competition in providing similar benefits. (Lawrence and Weinstein, 2001, pp. 379-80)

In their study, Lawrence and Weinstein examine aggregate time-series data for Japan and Korea to make the case for the importance of imports in the two countries' growth experience. Again, our contribution differs in that we are able to take a more disaggregated view of trade, examine its productivity level and patterns of fragmentation, and correlate it with FDI flows. We also consider a larger sample of countries, giving a sense of patterns more in keeping with the intent of the East Asian miracle study.

The scope of our study is the eight economies considered in the World Bank (1993) study, augmented by the two emerging giants, China and India. Data limitations dictate the period that we use, 1984-2000 (with a couple of exceptions). This period captures the latter part of the East Asian miracle, as well as significant portions of the transitions of China and India toward being more open to foreign trade and capital, as well as domestically more market-oriented. In section II, we provide an overview of some aspects of these economies' experience during the period in question. Section III describes our data and methodology in some detail. Since we use data from several sources, necessitated by our conceptual scope as well as changes

in data categories over the period in question, preparing the data requires some care. We also explain our indices of trade "quality," based on Hausmann et al. (2007), or based on extensions of those ideas. We focus on trade in manufactures in our analysis, rather than all commodity trade as in Hausmann et al., but results for all trade are similar to those presented below.

Section IV describes our results. We find that the Asian countries in our sample have been relatively successful at upgrading the productivity level of their trade, consistent with the analysis of Hausmann et al., but for a different time period. By extending the Hausmann et al. approach to different types of exports (intermediate and other), and to imports, which are not considered by those authors, we find that productivity levels in intermediate exports, other goods exports, and intermediate imports are highly correlated with GDP per capita; the three have a clear positive trend for most countries. Furthermore, the correlation between intermediate imports (respectively, intermediate and other goods exports) productivity levels and FDI inflows tends to be higher for more developed (respectively, less developed) Asian countries in our sample.Section V provides a summary conclusion.

II. Historical Overview

The well documented East Asian economic "miracle" is probably best appreciated by observing the growth in GDP per capita in the region. The countries examined all saw impressive growth in GDP per capita (see Figure II.1). PPP converted GDP per capita increased at an average annual growth rate (AAGR) of 4.2 percent in the 1984-2000 period. There was significant convergence in the region, a result of Japan's stagnation and the high growth experienced by the Asian Tigers (Hong Kong, South Korea, Singapore, and Taiwan) and China. In terms of GDP per capita, the fastest growing countries were China (7.6 percent), South Korea

(6.5 percent), and Taiwan (6.1 percent); the slowest growing countries were Japan (2.1 percent), Indonesia (3.0 percent), and India (3.2 percent). The Asian financial crisis had a significant effect on these economies, but China and the Asian Tigers were able to recover fairly quickly. This pattern continued and, even, accelerated in the post-2000 period, though we do not analyze that more recent experience in this paper.

[Figure II.1 about here]

Trade, especially trade in manufacturing, appears to have played significant role in this growth. We focus on manufactured goods because it allows us to exclude commodities, which have a different role to play in development and industrialization. In all cases, total exports and imports grew at much faster rates than that of the GDP per capita. China experienced the fastest growth in both exports and imports (19 and 21 percent, respectively) and the slowest growing economies were Japan (7 percent each, respectively) and Indonesia (7 and 6 percent, respectively). Manufacturing trade, especially for exports, played a crucial role in this growth (see Table II.1). Manufactures grew at faster rates than overall trade. As can be seen in Table II.1, most of the countries in the sample experienced significant increases in the share of manufactures in overall merchandise trade. The only decreases were minor (Hong Kong, -1 percent, and Japan -0.4 percent), and occurred in countries had had very high shares in manufacturing at the beginning of the period.

There were a few noticeable drops in the share of manufacturing in imports over the period of analysis. For example, the share of manufactures in imports decreased in India (because of the increased importance of uncut/un-mounted diamonds, which the UNCTAD

classification does not consider to be manufacturing), China (because of the increase in petroleum imports), and Indonesia (also because of the large increase in petroleum imports). Manufacturing exports in China, Hong Kong, Japan, Korea, and Taiwan accounted for more than 90 percent of all exports by 2000. Indonesia had the lowest share (56 percent) and Japan had the highest share (96 percent). On the import side, only Indonesia (61 percent), India (35 percent), Japan (56 percent), and Korea (61 percent) had shares lower than 75 percent. Although the share of manufacturing is not as high on the import side, the growth in share was in the double digits for most of the countries. Japan had the largest increase in the share of imported manufactures (33 percentage points), but it had the smallest share at the beginning of the period (23 percent).

[Table II.1 about here]

When splitting trade into intermediates and other goods, using the BEC classification, we see that intermediate trade patterns are not uniform across countries (See Figures II.2 and II.3).² For imports, the importance of intermediates in manufacturing decreased from 1984 until about the mid-1990s. They subsequently increased in importance, but, in many cases, had not recovered by 2000, or were at about the same level, as in the early 1980s. The largest decrease was of less than 11 percentage points (Japan). The only countries to increase the share of intermediates in imports over the period were India, Korea, Malaysia, Singapore, and Thailand. Intermediate imports were, nevertheless, important and account for over 40 percent of all imports for all of the Asian countries in our sample. Characterizing the changes in intermediates in manufacturing exports is more difficult to generalize about, because some countries saw the

 $^{^{2}}$ We should note that the data is of a lower bound for intermediates, for more information see the data and methodology section

percentage share of intermediates decrease by double digits, while for other countries the share increased by double digits. The largest drop in intermediates' exports share was almost 20 percent (India) and the highest increase was 29 percent (Taiwan). Interestingly, Japan and the Asian Tigers increased their share, while the rests of the countries (including China) saw decreases. This is consistent with several studies that looked at intermediates and found that the share of intermediates in trade has decreased (Hummels et al., 2001). However, looking at the share of intermediate manufactures trade ignores the fact that not all intermediates are the same. The drop in the share of intermediates (such as fabrics), while the increase in the 1990s was a result of a drop in the importance of relatively low-tech intermediates (such as fabrics), while the increase in the 1990s was a result of increases in the importance of relatively higher-tech intermediates (such as electronic microcircuits). We quantify this difference in relative technological level embodied in each country's imports and exports in the next section.³

[Figure II.2 about here] [Figure II.3 about here]

III. Data and Methodology

The trade, GDP, and FDI data each comes from a separate source. We use trade data compiled and standardized by Feenstra, Lipsey, Deng, Ma, and Mo (2005). The data contain bilateral trade data for 1962-2000, classified as Standard International Trade Classification, revision 2 (SITC, Rev. 2) and disaggregated at the four-digit level. The bilateral data is

³ To provide a concrete sense of the major exports and imports of the sample countries, we provide "top ten" tables for each in the appendix.

aggregated to create multilateral data, which is what we use in our analysis.⁴ The pre-1984 data were originally classified by SITC Rev.1 and had to be converted to SITC Rev. 2 by the authors; to avoid any concordance issues, we will only focus on the data beginning in 1984 and ending in 2000.⁵ We should note that the data excludes SITC four-digit categories that did not exceed \$100,000 per year. The PPP adjusted GDP per capita data are from the Penn World Tables and are in constant 2005 US dollars. For FDI we use UNCTAD's data on FDI inflows as a percent of GDP for the same period as the trade data. The only exception is for Indonesia, which did not report FDI inflows as a percent of GDP during the period in question, and is excluded from the analysis of FDI.

The calculations required two concordances: SITC to manufacturing and SITC to BEC. First, to determine which SITC products are classified as manufacturing, we used UCTAD's definition for manufacturing.⁶ Second, to determine which SITC goods were intermediates and which were "other goods", we used the UN's classification by Broad Economic Categories (BEC), which allows us to separate the data into intermediates, consumption, capital, and not classified (see Table III.1). The BEC concordance is in SITC Rev. 3, while the trade data is in SITC Rev. 2. As a result we ended up with three trade categories: Intermediate, Others, and Mixed. "Mixed" refers to categories that include both intermediate and other goods in the different SITC revisions, and it tends to be a fairly small and consistent category (the data can be provided upon request). The share of goods classified as Mixed varied significantly, but was

⁴ The Feenstra et al. trade data are bilateral. They use multiple sources for this base data (e.g., they believe importer data is more accurate) to avoid issues such as re-exports. We aggregate the bilateral data into multilateral data (i.e., getting world totals by SITC sector).

⁵ There are two exceptions to this: 1) China; which starts in 1987 because a significant amount of data were not disaggregate before that date and 2) India, which ends in 1999 because India data for imports were not separated in 2000.

⁶ SITC 5 (Chemicals and related products), 6(Manufactured goods), 7 (machinery and transport equipment), and 8 (Miscellaneous manufactured articles), less 667 (pearls, precious & semi-precious stones) and 68 (non-ferrous metals).

between 8 (Malaysia) and 25 (China) percent of total exports and between 16 (Singapore) and 23 (Taiwan) percent of total imports. Including Mixed as intermediates or as "others" did not change our results much and we chose to leave the "mixed" trade data out of the current analysis. The trade in the categories used in our analysis still accounts for at a minimum of three-fourths of aggregate trade.

[Table III.1 about here]

To analyze the role of different aspects of trade in the Asian development success, we make use of Hausmann et al.'s (2007) framework to establish a hierarchy in goods in terms of their implied productivity. The quantitative index requires two steps. Step 1 is to rank the traded goods in terms of their implied productivity. They refer to this measure as PRODY and it is calculated by taking a weighted average of the per-capita GDP of a product's exporters. The weights used are the revealed comparative advantage of each county in that commodity. As PRODY gives the "income/productivity level" of a commodity, the higher the PRODY, the higher the average income level of its exporters. We define good i's share of total exports by country j as $EXP_{ji} = x_{ji}/\sum_i x_{ji}$ and good i's share of total imports by country j as $IMP_{ji} = m_{ji}/\sum_i m_{ji}$, where x_{ji} is the value of export i by country j and m_{ji} is the value of import i by country j. Thus, $\sum_i x_{ji} \& \sum_i m_{ji}$ are total manufacturing exports and imports, respectively. The formula for PRODY is:

$$PRODY_{i} = \sum_{j} \left(\frac{EXP_{ji}}{\sum_{j} EXP_{ji}} \right) (Per\ Capita\ GDP_{j})$$

Step 2 is to calculate the average "income/productivity level" for each country's trade basket. Hausmann et al. refer to this measurement for exports as EXPY and note that it measures "...the productivity level associated with a country's specialization pattern." Since we are also looking at the import side we calculate two productivity level variables EXPY and IMPY. They are the weighted sum of the PRODY for each country. The weights are, respectively, the share of each good in country j's total exports and total imports in manufacturing. Therefore, in our analysis, we have introduced IMPY as the import analogue of EXPY. The two measures are calculated using the following formulas:

$$EXPY_{j} = \sum_{i} EXP_{ji}(PRODY_{i})$$
$$IMPY_{j} = \sum_{i} IMP_{ji}(PRODY_{i})$$

Note that, since we are using PRODY as a measurement for the productivity level, we use PRODY created from *exporters* to calculate both EXPY for exports and IMPY for imports.

Hausmann et al. chose to compare the implied productivity at a point in time across different countries (with varying GDP per capita). For example, Hausmann et al. find that "EXPY is a strong robust predictor of subsequent economic growth, controlling for standard covariates." They also find that, compared to the world average, India and China are outliers. We, on the other hand, examine a relatively small number of countries and see how trade patterns in these countries have evolved over time, compared to each other. We also examine different types of exports, imports, and FDI inflows in tracing the evolution of these trade patterns.

IV. Results

In this section we analysis and compare the EXPY and IMPY in manufacturing for the Asian countries with GDP per capita, growth over time, and FDI inflows. First, we follow Hausmann et al. in comparing EXPY for exports (and IMPY for imports) relative to GDP per capita. We find that the less developed Asian countries in the sample are somewhat distinct, relative to the average trend of the other Asian economies in this group. This is consistent with Hausmann et al.'s finding. Second, we see how the IMPY and EXPY for imports and exports have changed over time. We find that when we look across time, China and some of the other Asian countries have achieved significant increases in their EXPY and IMPY, but Japan and the Asian Tigers are the ones who stand out as having the highest EXPY (this pattern is not as pronounced for IMPY). Finally, we look at the connection between EXPY or IMPY on the one hand, and FDI inflows on the other; we find that, in almost every case, both EXPY and IMPY are significantly and positively correlated with FDI inflows. The correlation appears to be stronger among intermediate products than among other products.

We begin with Figures IV.1 through IV.4, which display patterns of relationships between EXPY and IMPY on the one hand (for each of the two categories of goods – intermediate and other) and GDP per capita on the other. Both categories of exports display a strong positive relationship between EXPY and per capita GDP. On the other hand, this positive relationship only appears for intermediate imports when comparing IMPY with per capita GDP.⁷

It is interesting to note that China, India, Thailand, Malaysia, and, to a lesser extent, Indonesia appear to be in a different group when comparing EXPY and IMPY with GDP per

⁷ Our results with respect to intermediate imports may also be seen as complementing analyses of the development impacts of trade in capital goods, such as Eaton and Kortum (2001) and Alfaro and Hammel (2007).

capita (See Figure IV.1 to IV.4).⁸ That is, for their per capita GDP, these countries appear to be at EXPY levels higher than their Asian counterparts (Japan and the Asian Tigers) were at the same GDP per capita level. Does that mean these countries found a way to increase EXPY/IMPY for a given GDP per capita or that the technological barriers to trade have gone down over time allowing these lesser developed countries to export more sophisticated products? Hausmann et al. suggest that it is first, but the literature on trade fragmentation would favor the latter explanation.

We conjecture that the observed pattern is a combination of the two explanations, with the key link being FDI. During the period being analyzed, these Asian countries have been more receptive to FDI, have opened up their markets, and demanded more technology transfer.⁹ At the same time, lower tariffs, lower transportation costs, and lower communication costs have allowed intermediate goods to increase substantially in trade.

Since intermediates have not increased as fast as other goods for several of the countries in the sample (see Section II, and Table II.2), the fact that EXPY and IMPY have increased means than the composition of intermediates has changed substantially. Since the changes in composition have tended towards more high-tech intermediates, these products are the ones that have tended to benefit from the lower trade costs and the various government policies. Finally, with trade fragmentation, it is conceivable that some of the increases in EXPY are due to increased IMPY, since export upgrading is based on importing more complex intermediate goods. The iPod, a product "made" in China, is a clear example of this (Linden, Dedrick, and Kraemer, 2011).

⁸ In order to make the figures intelligible, we do not display the data for every year, but only for the first, middle and last years of the sample.

⁹ For an example, see Swenson (2011).

The patterns in Figures IV.1 to IV.4 can be investigated through examining the correlations between the variables, reported in Table IV.1. We find that GDP per capita and EXPY are highly correlated (this is consistent with Hausmann et al.). In fact, the EXPY for both intermediate and other exports are highly correlated with GDP per capita. The correlation is positive and significant in every case, with the sole exception of "other goods" for Hong Kong. Interestingly, the correlation between the IMPY for intermediate imports and GDP per capita is also strong, positive, and significant in many cases. There are, however, a few exceptions; the correlation is not significant for India, Malaysia, Taiwan, and Thailand. The correlation between the IMPY for other imports and GDP per capita is not significant in most cases. The only exceptions are Malaysia, Singapore and Taiwan. The correlation is actually negative and significant for Taiwan. It is interesting to note that for both Malaysia and Taiwan the correlation is not significant for intermediate imports, but it is for other imports. For Malaysia, the reason may be the country's increased reliance on non-intermediate imports. For Taiwan, the negative sign on the correlation of IMPY for other goods imports is perplexing.

To see if part of the reason that the less developed countries in the sample stand out from the others is shifts in the technological frontier, we examine how EXPY and IMPY change over time (Figures IV.5 through IV.8). Looking at the data in this dimension, it becomes quite clear that for EXPY the less developed countries (including China) are not outliers, but are, in fact, below the East Asian average. A major reason might be that the less developed economies in the sample have not reached development levels required to export more technologically advanced products. The fact that EXPY and IMPY are so high relative to GDP per capita may be a result of the breakup of the production chain (trade fragmentation), lower production costs (better, more inexpensive technology), or lower trade costs (transportation costs, high tariffs, and nontariff barriers).

Nonetheless, it is also clear that the EXPY has increased at impressive rates for exports (see Figures IV.5 and IV.6). This applies to both intermediates and others. These figures appear to show that all the countries are converging towards one point for intermediates. China, India, and Indonesia have the lowest EXPY at the end of the period, but these were also the countries with the fastest growing EXPY. The increase in EXPY for "other goods" exports is quite large (five countries increased EXPY by at least 5,000 US\$). It is no wonder that this increase in productivity level has been noticed, even in the popular press.¹⁰ There are some exceptions; China, Indonesia, Hong Kong, and Japan had relatively little or no growth in EXPY for this category. However, the reasons for this lack of growth are very different among this subgroup. In particular, Japan had the largest EXPY at the beginning of the period, and was still in the top three by the end of the period. Although China, Indonesia, and Hong Kong may not have increased as much as the others, they have managed to match the rest of the sample countries in their EXPY for intermediate exports.

[Figure IV.5 about here]

[Figure IV.6 about here]

¹⁰ For example, see the New York Times article of January 21, 2012, "How the U.S. Lost out on iPhone Work," which reflects the combination of FDI, trade fragmentation and export productivity upgrading in the context of China's role as a base for iPhone production. (http://www.nytimes.com/2012/01/22/business/apple-america-and-a-squeezed-middle-class.html)

How is it that the EXPY for "other goods" exports increased by such large amounts? It is conceivable, with trade fragmentation, that part of the large increase in the EXPY for exports was led by the increase in the IMPY for imports. Several studies find that foreign content in some countries' exports has increased over time (for examples of this phenomenon, see Hummels, Ishii, and Yi, 2001; and Dean, Fung, and Zhi, 2008). Our results also show that the imported intermediates have also increased in productivity level, as measured by IMPY, something that has received little attention in the literature (see Figure IV.7). India is the only country where IMPY does not have a strong positive trend during the period (which may be related to its poor performance in the EXPY for "other goods" exports). By the end of the period, the countries with the lowest IMPY for intermediate imports were India, Hong Kong, and China. China, however, began to experience a large increase in IMPY toward the end of the 1990s. For the most part, it appears that the IMPY for other imports is fairly constant (see Figure IV.8). It is noteworthy that most of the Asian countries in the sample had IMPY levels for imports that were at the same technological level during the whole period and that "other goods" imports into Hong Kong and Japan were significantly less technologically advanced that those of the other countries.

[Figure IV.7 about here]

[Figure IV.8 about here]

What role has FDI played in this technological upgrading? FDI is arguably a key driver of trade fragmentation. In China, for example, foreign invested enterprises perform the majority of processing trade (trade that uses imported intermediates) and do very little in regular trade (Dean, Lovely, and Mora, 2009). There are case studies, such as the iPod example, that find examples of FDI leading to technological upgrading in imports and exports. However, rigorous econometric analysis rarely looks at the link between technological upgrading and FDI, focusing more on increases in exports or imports. To see if there is a connection between FDI and upgrading we compare the respective correlations between EXPY and IMPY and FDI inflows (as a percent of GDP). The EXPY and IMPY correlations with FDI inflows (see Table IV.2) are smaller than their correlations with GDP per capita. They are, nonetheless, statistically significant in many cases, and fairly high in magnitude. In general, for both intermediate and other goods exports, the correlation between EXPY and FDI inflows is strongest for the less developed economies in the sample (especially for China and India). The correlations, although positive, are not significant for Japan, Singapore, and Taiwan; South Korea has a strong positive and significant correlation for both intermediates and other goods exports; and Hong Kong has a strong positive and significant correlation for the intermediates EXPY and a positive, but not significant, correlation for other goods EXPY. The correlation appears to be higher for intermediate exports than for other goods exports. Malaysia, again, has a negative and significant correlation between the EXPY for intermediate exports in manufacturing and FDI inflows.

The correlation between IMPY and FDI inflows (as a percent of GDP) is not as strong, nor as significant, as the correlation between EXPY and FDI inflows. It is interesting to note that, in contrast to the findings for EXPY, the correlation is not significant for the less developed Asian economies of our sample. The correlation for intermediate imports is fairly strong, positive, and significant for Hong Kong, Japan, Korea, and Singapore. The correlation between IMPY for "other goods" imports and FDI inflows is only significant in two cases: Singapore and Thailand, and it is negative in the latter case. The fact that the correlation is negative and significant for Thailand is perplexing (especially because the correlations were strong, positive, and significant for EXPY).

The heterogeneity of the correlations among the sample of countries is presumably a result of how important FDI is to each country and the sectors targeted by the FDI inflows. For example, FDI may be complementary to certain types of trade, and a substitute for others. The latter happens when FDI is motivated by the desire to reduce trade costs of exporting to the host country. On the other hand, if FDI is motivated by setting up production for exporting, then FDI and exports can move together.¹¹ In these kinds of models or empirical exercises, trade effects are measured in terms of quantitative impacts. On the other hand, the focus of the analysis here is on the complexity or productivity of trade. The correlations in Table IV.2 indicate that the higher income countries in the sample tend to have higher FDI being associated with more complex intermediate goods imports: these might be sophisticated engineering equipment, for example. For the lower income countries in the sample, the export impacts are more pronounced. In both cases, however, there is still unexplained variation across countries with similar income levels.

V. Conclusion

In reviewing the development experience of several Asian economies, specifically with respect to their FDI, trade fragmentation and trade upgrading, we find that these countries have been relatively successful at upgrading the productivity level of their exports and their intermediate imports. Although we do not identify the causal link, it is clear that export and import productivity levels are highly correlated with GDP per capita. Whatever the causal link may be, we find that, for the Asian economies in our sample, intermediate export productivity

¹¹ Blonigen (2001) finds evidence of substitution as well as complementarity between affiliate production and exports of Japanese automobile parts for the US market.

levels are converging; there are many successful cases of improved final goods export productivity levels; and there are strong positive trends for intermediate import productivity levels.

FDI may arguably be a driver for the upgrading of trade productivity levels, but the role varies by country. In general, for the less developed Asian economies in our sample, we find that FDI is highly correlated with the increases in productivity growth in exports. For the more developed Asian economies, however, this correlation tends to be higher for increases in productivity of intermediate imports.

Our findings have potential policy implications. First, FDI may play a significant role in technological upgrading and the sectors receiving this FDI may determine whether intermediate goods or other goods increase in productivity levels. Second, trade costs (especially tariffs and non-tariff barriers) may stunt the productivity levels of exports by increasing the costs of intermediates used by local producers or by discouraging FDI that seeks to take advantage of vertical specialization. Policymakers should take these possibilities into account when setting trade policies.

Future research can focus on several areas. For example, detailed econometric studies are needed to identify the causal link between FDI and technological upgrading of both imports and exports. This would involve identifying the specific sectors receiving FDI and to see if this FDI is indeed driving some of the patterns we identify in our analysis. Finally, it would also be interesting to disaggregate the data by trading partner. For example, in the case of exports, are higher technology goods destined for countries in the North or the South? Is this pattern different for intermediates versus other goods? And in the case of imports, what is the origin of the higher-

tech intermediate goods imports? Has trade fragmentation opened up new opportunities or new

challenges for lesser developed countries? These are all questions worth exploring.

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Figures and Tables

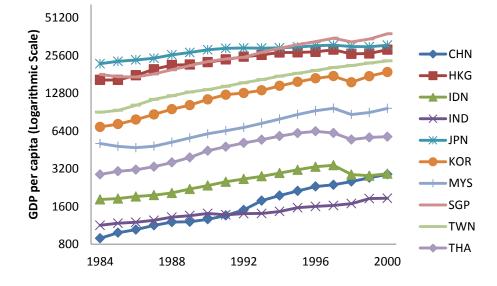
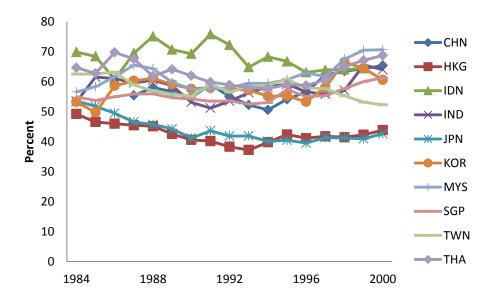


Figure II.1: PPP Converted GDP per capita, 1984-2000 (Constant 2005 US\$)

Figure II.2: Intermediate Imports in Manufacturing (share of Total Imports)



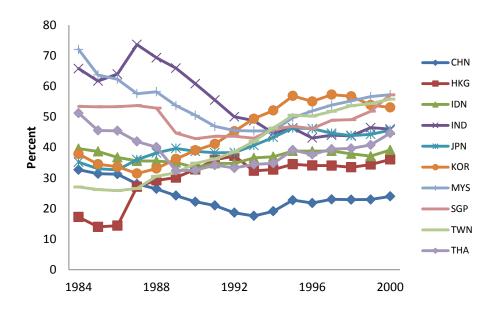
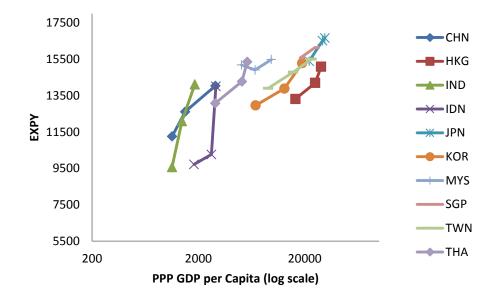


Figure II.3: Intermediate Exports in Manufacturing (Share of Total Exports)

Figure IV.1. Intermediate Exports Vs. GDP per capita (1984, 1992, and 2000)



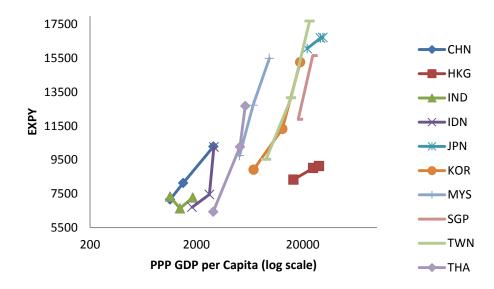
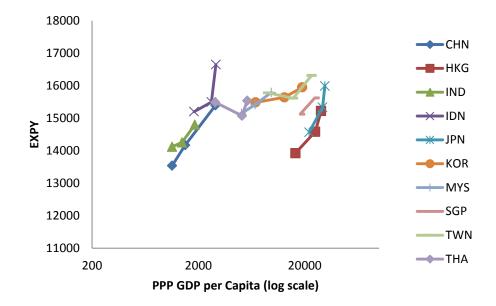


Figure IV.2. EXPY for Other Exports Vs. GDP per capita (1984, 1992, and 2000)

Figure IV.3. IMPY for Intermediate Imports Vs. GDP per capita (1984, 1992, and 2000)



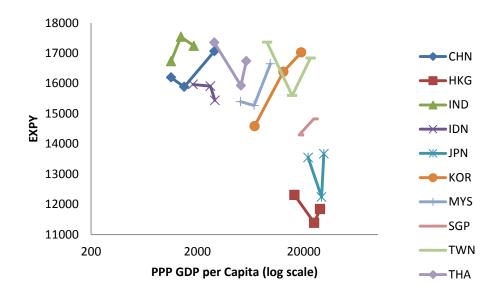


Figure IV.4. IMPY for Other Imports Vs. GDP per capita (1984, 1992, and 2000)

Figure IV.5 EXPY for Intermediate Exports

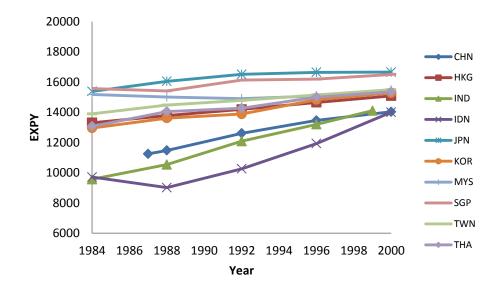


Figure IV.6. EXPY for Other Exports

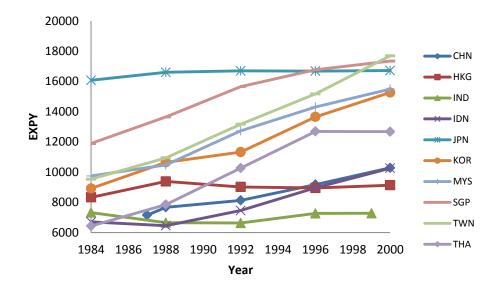
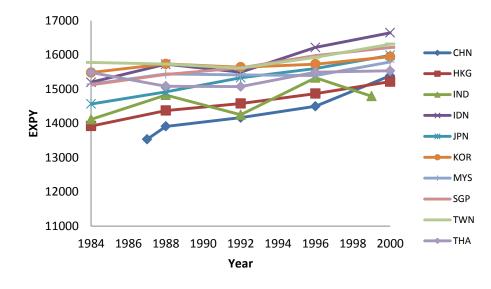


Figure IV.7. IMPY for Intermediate Imports



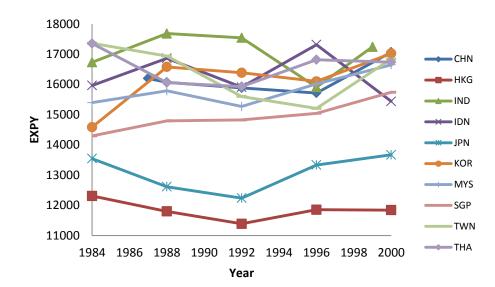


Figure IV.8. IMPY for Other Imports

		Ехр	orts		Impor	ts
code	1984	2000	Difference	1984	2000	Difference
CHN	62	91	29	82	75	(6)
HKG	92	91	(1)	75	86	11
IDN	8	56	48	64	61	(4)
IND	38	61	22	43	35	(8)
JPN	96	96	(0)	23	56	33
KOR	90	90	0	55	61	6
MYS	26	83	56	73	84	11
SGP	50	82	32	53	81	28
THA	29	76	47	59	75	16
TWN	90	95	5	57	79	22

Table II.1. Share of Manufacturing in Total Exports and Imports

Note: Data for China starts in 1987 and data for India ends in from 1999

Table I	Table II.2. Share of Intermediates in Manufacturing Exports and Imports									
		Ехр	orts		Imp	orts				
code	1984	2000	Difference	1984	2000	Difference				
CHN	28	24	(4)	55	65	10				
HKG	17	36	19	49	44	(5)				
IDN	40	39	(0)	70	64	(5)				
IND	66	46	(20)	53	64	11				
JPN	35	46	10	54	43	(11)				
KOR	38	53	15	53	61	7				
MYS	72	57	(15)	57	71	14				
SGP	53	57	4	55	61	6				

Note: Data for China starts in 1987 and data for India ends in from 1999

(7)

(10)

THA

TWN

Table III.1. Current BEC and SNA classes of goods

Table III.1. Current BEC and SINA classes of goods	
	Basic classes of
Classification by Broad Economic Categories	goods in SNA
1 Food and beverages	
11 Primary	
111 Mainly for industry Intermediate	Intermediate
112 Mainly for household consumption	Consumption
12 – Processed	
121 Mainly for industry Intermediate	Intermediate
122 Mainly for household consumption	Consumption
2 Industrial supplies not elsewhere specified	
21 Primary Intermediate	Intermediate
22 Processed Intermediate	Intermediate
3 Fuels and lubricants	
31 Primary Intermediate	Intermediate
32 Processed	
321 Motor spirit Not classified	Not classified
322 Other Intermediate	Intermediate
4 Capital goods (except transport equipment), and parts and accessories thereof	
41 Capital goods (except transport equipment) Capital	Capital
42 Parts and accessories Intermediate	Intermediate
5 - Transport equipment and parts and accessories thereof	
51 Passenger motor cars Not classified	Not classified
52 Other	
521 Industrial Capital	Capital
522 Non-industrial Consumption	Consumption
53 Parts and accessories Intermediate	Intermediate
6 Consumer goods not elsewhere specified	
61 Durable Consumption	Consumption
62 Semi-durable Consumption	Consumption
63 Non-durable Consumption	Consumption
7 - Goods not elsewhere specified Not classified	Not classified

Flow	Class	CHN	HKG	IDN	IND	JPN	KOR	MYS	SGP	TWN	THA
XP	Ι	0.9727*	0.9025*	0.7675*	0.9622*	0.9769*	0.9778*	0.2758	0.9128*	0.9802*	0.9160*
EX	0	0.9697*	0.3693	0.8475*	0.6002*	0.9033*	0.9726*	0.9756*	0.9368*	0.9941*	0.9755*
ЛР	Ι	0.8999*	0.9533*	0.7096*	0.3862	0.7433*	0.5795*	0.2013	0.9572*	0.4053	-0.0929
LI LI	0	0.5013	-0.0032	0.4814	0.1582	-0.1912	0.4661	0.4936*	0.8721*	-0.6412*	-0.2575

Table IV.1. Correlation between GDP per capita and EXPY/IMPY in Manufacturing

* 5% significance level

Table IV.2. Correlation between FDI inflows (% of GDP) and EXPY/IMPY in Manufacturing

Flow	Class	CHN	HKG	IND	JPN	KOR	MYS	SGP	TWN	THA
EXP	Ι	0.7857*	0.5085*	0.8133*	0.3735	0.6485*	-0.4826*	0.3934	0.3451	0.5159*
E	0	0.6644*	0.1755	0.7942*	0.2351	0.6952*	0.5416*	0.4444	0.3500	0.5457*
IMP	Ι	0.4428	0.5229*	0.4812	0.6982*	0.7729*	-0.4194	0.5753*	0.4705	-0.3866
1	0	0.0896	0.1316	0.1874	0.3964	0.3737	0.0236	0.6643*	0.1566	-0.4973*

* 5% significance level

Note: Data on FDI inflows (% GDP) for Indonesia is missing.

Appendix

Table A1: Top Ten Exports in 1999

country	class	sitc2	description	value	PRODY
	М	8942	CHILDRENS TOYS,INDOOR GAMES,ETC.	24,590,510	13,995
	0	8510	FOOTWEAR	18,749,789	6,470
	Ι	7599	PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-	10,296,961	14,434
	0	8310	TRAVEL GOODS, HANDBAGS, BRIEF-CASES, PURSES, SHEATHS	9,490,894	8,162
na	0	8451	JERSEYS, PULL-OVERS, TWINSETS, CARDIGANS, KNITTED	7,697,577	4,012
China	0	7525	PERIPHERAL UNITS, INCL. CONTROL & ADAPTING UNITS	7,297,261	14,228
	М	8939	MISCELLANEOUS ART. OF MATERIALS OF DIV.58	5,559,173	18,789
	0	8439	OTHER OUTER GARMENTS OF TEXTILE FABRICS	5,554,139	4,881
	Ι	7649	PARTS OF APPARATUS OF DIVISION 76-	5,283,397	15,621
	М	7712	OTHER ELECTRIC POWER MACHINERY, PARTS OF 771-	4,936,128	13,050
	Ι	7764	ELECTRONIC MICROCIRCUITS	4,275,384	17,052
	Ι	7599	PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-	2,969,879	14,434
	0	8451	JERSEYS,PULL-OVERS,TWINSETS,CARDIGANS,KNITTED	2,712,731	4,012
AR	0	8439	OTHER OUTER GARMENTS OF TEXTILE FABRICS	1,676,353	4,881
K S	М	8851	WATCHES,WATCH MOVEMENTS AND CASES	1,519,618	22,093
a HI	M	8942	CHILDRENS TOYS, INDOOR GAMES, ETC.	1,504,373	13,995
China HK SAR	0	8973	JEWELLERY OF GOLD, SILVER OR PLATINUM	1,381,675	7,939
0	0	8462	UNDER GARMENTS,KNITTED OF COTTON	1,086,441	4,521
	M	7788	OTHER ELECT.MACHINERY AND EQUIPMENT	1,032,287	13,171
	I	6522	COTTON FABRICS, WOVEN, BLEACH.MERCERIZ.DYED, PRINTED	936,002	8,098
	M	6513	COTTON YARN	1,422,014	3,743
	0	8973	JEWELLERY OF GOLD, SILVER OR PLATINUM	1,044,606	7,939
	0	6584	BED LINEN,TABLE LINEN,TOILET & KITCHEN LINEN ETC.	768,543	5,950
	0	8462	UNDER GARMENTS,KNITTED OF COTTON	755,072	4,521
a	0	8441	SHIRTS, MENS, OF TEXTILE FABRICS	676,076	3,080
India	0	8435	BLOUSES OF TEXTILE FABRICS	643,912	4,518
	0	8439	OTHER OUTER GARMENTS OF TEXTILE FABRICS	571,569	4,881
	0	8481	ART.OF APPAREL & CLOTHING ACCESSORIES, OF LEATHER	509,505	5,374
	M	5417		506,859	20,926
	I	6522	MEDICAMENTS (INCLUDING VETERINARY MEDICAMENTS)	502,823	8,098
-	I	6342	COTTON FABRICS, WOVEN, BLEACH. MERCERIZ. DYED, PRINTED PLYWOOD CONSISTING OF SHEETS OF WOOD	2,735,111	6,861
	0	8510	FOOTWEAR	1,865,958	6,470
	0	8219		1,108,464	12,395
	I	8219 7599	OTHER FURNITURE AND PARTS	912,272	12,393
esia	I	6412	PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-	912,272 887,605	22,352
Indonesia	0	7525	PRINTING PAPER & WRITING PAPER, IN ROLLS OR SHEETS	865,212	14,228
Inc	0	7 <i>525</i> 7638	PERIPHERAL UNITS, INCL. CONTROL & ADAPTING UNITS	805,212 811,759	14,228
	I	7058 6415	OTHER SOUND RECORDERS AND REPRODUCERS	774,986	20,324
	I	7649	PAPER AND PAPERBOARD, IN ROLLS OR SHEETS, N.E.S.	749,020	
			PARTS OF APPARATUS OF DIVISION 76-	,	15,621 4,881
	0	8439	OTHER OUTER GARMENTS OF TEXTILE FABRICS	730,930	,
		7810 7764	PASSENGER MOTOR CARS, FOR TRANSPORT OF PASS.& GOOD	57,271,654	16,660 17.052
	I	7764 7840	ELECTRONIC MICROCIRCUITS	24,731,586	17,052
	I	7849 7500	OTHER PARTS & ACCESSORIES OF MOTOR VEHICLES	14,698,404	19,647 14,434
с	I M	7599 7284	PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-	13,130,106	14,434
Japan	M	7284	MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND.	10,948,210	19,017
ſ	I	7649	PARTS OF APPARATUS OF DIVISION 76-	10,225,946	15,621
	M	7788	OTHER ELECT.MACHINERY AND EQUIPMENT	9,713,834	13,171
	0	7638	OTHER SOUND RECORDERS AND REPRODUCERS	9,475,341	15,030
	0	7932	SHIPS, BOATS AND OTHER VESSELS	9,467,473	11,211
	0	7525	PERIPHERAL UNITS, INCL. CONTROL & ADAPTING UNITS	8,991,797	14,228

r					
	I	7764	ELECTRONIC MICROCIRCUITS	17,875,244	17,052
	0	7810	PASSENGER MOTOR CARS, FOR TRANSPORT OF PASS.& GOOD	9,372,667	16,660
	0	7643	RADIOTELEGRAPHIC & RADIOTELEPHONIC TRANSMITTERS	4,772,204	20,363
sp.	0	7932	SHIPS, BOATS AND OTHER VESSELS	4,640,971	11,211
Korea Rep.	Ι	7599	PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-	4,516,730	14,434
ore	0	7525	PERIPHERAL UNITS, INCL. CONTROL & ADAPTING UNITS	4,477,254	14,228
×	Ι	6531	FABRICS, WOVEN OF CONTINUOUS SYNTH. TEXTIL. MATERIALS	3,166,282	10,051
	0	7524	DIGITAL CENTRAL STORAGE UNITS, SEPARATELY CONSIGNED	3,140,025	16,289
	Ι	7649	PARTS OF APPARATUS OF DIVISION 76-	2,399,884	15,621
	Ι	6552	KNITTED/CROCHETED FABRICS OF FIBRES OTH.THAN SYNTH	1,992,552	9,384
	Ι	7764	ELECTRONIC MICROCIRCUITS	16,619,652	17,052
	Ι	7599	PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-	9,396,094	14,434
	0	7524	DIGITAL CENTRAL STORAGE UNITS, SEPARATELY CONSIGNED	4,986,819	16,289
	0	7525	PERIPHERAL UNITS, INCL. CONTROL & ADAPTING UNITS	2,553,217	14,228
Malaysia	0	7638	OTHER SOUND RECORDERS AND REPRODUCERS	2,182,045	15,030
Aala	Ι	7763	DIODES, TRANSISTORS AND SIM. SEMI-CONDUCTOR DEVICES	2,138,164	12,103
4	0	7628	OTHER RADIO-BROADCAST RECEIVERS	1,964,173	12,516
	0	7523	COMPLETE DIGITAL CENTRAL PROCESSING UNITS	1,893,200	24,163
	Ι	7649	PARTS OF APPARATUS OF DIVISION 76-	1,837,646	15,621
	0	7611	TELEVISION RECEIVERS, COLOUR	1,582,574	14,250
	0	7524	DIGITAL CENTRAL STORAGE UNITS, SEPARATELY CONSIGNED	12,363,981	16,289
	Ι	7764	ELECTRONIC MICROCIRCUITS	11,771,117	17,052
	Ι	7599	PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-	8,273,697	14,434
e	0	7523	COMPLETE DIGITAL CENTRAL PROCESSING UNITS	2,551,731	24,163
npor	0	7525	PERIPHERAL UNITS, INCL. CONTROL & ADAPTING UNITS	2,452,324	14,228
Singapore	Ι	7768	PIEZO-ELECTRIC CRYSTALS, MOUNTED, PARTS OF 776-	1,490,692	15,380
S	0	7528	OFF-LINE DATA PROCESSING EQUIPMENT. N.E.S.	1,405,417	23,176
	Ι	7649	PARTS OF APPARATUS OF DIVISION 76-	1,285,399	15,621
	М	7788	OTHER ELECT.MACHINERY AND EQUIPMENT	1,238,413	13,171
	0	8983	GRAMOPHONE RECORDS AND SIM.SOUND RECORDINGS	1,205,298	25,318
	Ι	7599	PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-	13,294,784	14,434
	Ι	7764	ELECTRONIC MICROCIRCUITS	13,201,899	17,052
	0	7522	COMPLETE DIGITAL DATA PROCESSING MACHINES	4,288,036	24,050
	0	7525	PERIPHERAL UNITS, INCL. CONTROL & ADAPTING UNITS	4,266,756	14,228
van	0	7523	COMPLETE DIGITAL CENTRAL PROCESSING UNITS	3,878,125	24,163
Taiwan	Ι	7722	PRINTED CIRCUITS AND PARTS THEREOF	2,295,402	13,784
L '	Ι	6552	KNITTED/CROCHETED FABRICS OF FIBRES OTH. THAN SYNTH	2,101,460	9,384
	Ι	6531	FABRICS, WOVEN OF CONTINUOUS SYNTH. TEXTIL. MATERIALS	1,965,487	10,051
	М	7788	OTHER ELECT.MACHINERY AND EQUIPMENT	1,889,128	13,171
	М	8939	MISCELLANEOUS ART.OF MATERIALS OF DIV.58	1,833,581	18,789
	0	7524	DIGITAL CENTRAL STORAGE UNITS, SEPARATELY CONSIGNED	4,211,867	16,289
	I	7764	ELECTRONIC MICROCIRCUITS	3,510,486	17,052
	I	7599	PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-	3,205,052	14,434
	0	7525	PERIPHERAL UNITS,INCL.CONTROL & ADAPTING UNITS	2,338,450	14,228
and	0	7821	MOTOR VEHICLES FOR TRANSPORT OF GOODS/MATERIALS	1,107,166	16,254
Thailand	I	7649	PARTS OF APPARATUS OF DIVISION 76-	1,057,604	15,621
E	0	8973	JEWELLERY OF GOLD,SILVER OR PLATINUM	1,030,814	7,939
	M	7415	AIR CONDITIONING MACH.SELF-CONTAINED AND PARTS	1,020,753	16,787
	0	7611	TELEVISION RECEIVERS, COLOUR	968,940	14,250
	0	8510	FOOTWEAR	911,503	6,470
L	0	0510	7ALW LOUT	711,505	0,770

Table A2: Top Ten Imports in 1999

country	class	sitc2	description	value	PRODY
J	I	7764	ELECTRONIC MICROCIRCUITS	7,532,605	17,052
	I	7649	PARTS OF APPARATUS OF DIVISION 76-	5,363,549	15,621
	M	7284	MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND.	4,048,955	19,017
	I	7599	PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-	3,788,179	14,434
na	I	5833	POLYSTYRENE AND ITS COPOLYMERS	2,583,205	19,903
China	I	7721	ELECT.APP.SUCH AS SWITCHES,RELAYS,FUSES,PWGS ETC.	2,283,884	14,682
•	I	6531	FABRICS, WOVEN OF CONTINUOUS SYNTH. TEXTIL. MATERIALS	2,247,753	10,051
	0	7924	AIRCRAFT EXCEEDING AN UNLADEN WEIGHT OF 15000 KG	2,240,222	12,637
	M	7788	OTHER ELECT.MACHINERY AND EQUIPMENT	2,184,398	13,171
	I	6746	SHEETS & PLATES, ROLLED; THICKNESS OF LESS THAN 3MM.	2,180,581	12,025
	I	7764	ELECTRONIC MICROCIRCUITS	9,197,478	17,052
	I	7599		6,878,303	14,434
	M	8942	PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-	6,136,434	13,995
AR	I	7649	CHILDRENS TOYS,INDOOR GAMES,ETC.	5,010,606	15,621
X S/	0	8510	PARTS OF APPARATUS OF DIVISION 76-	4,960,661	6,470
China HK SAR	0	8310	FOOTWEAR	3,532,912	8,162
ina			TRAVEL GOODS, HANDBAGS, BRIEF-CASES, PURSES, SHEATHS	2,866,234	22,093
Ċ	M	8851	WATCHES, WATCH MOVEMENTS AND CASES	2,755,613	20,363
	0	7643	RADIOTELEGRAPHIC & RADIOTELEPHONIC TRANSMITTERS	2,664,494	4,012
	0	8451	JERSEYS, PULL-OVERS, TWINSETS, CARDIGANS, KNITTED	2,225,244	13,050
	M	7712	OTHER ELECTRIC POWER MACHINERY, PARTS OF 771-	924,435	4,738
	I	5222	INORGANIC ACIDS AND OXYGEN COMPOUNDS OF NON-METAL	660,715	7,131
	I	5629	FERTILIZERS,N.E.S.	432,886	14,434
	I	7599	PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-	432,880	14,434 19,647
_	I	7849	OTHER PARTS & ACCESSORIES OF MOTOR VEHICLES	339,131	6,173
India	I	5623	MINERAL OR CHEMICAL FERTILIZERS.POTASSIC	318,569	17,291
Г	I	5112	CYCLIC HYDROCARBONS		25,318
	0	8983	GRAMOPHONE RECORDS AND SIM.SOUND RECORDINGS	318,389 297,038	
	0	7932	SHIPS, BOATS AND OTHER VESSELS	268,552	11,211 9,027
	0	7938	TUGS, SPECIAL PURPOSE VESSELS, FLOATING STRUCTURES		15,621
	I	7649	PARTS OF APPARATUS OF DIVISION 76-	256,785 474,619	17,291
	I	5112	CYCLIC HYDROCARBONS		
	Ι	5111	ACYCLIC HYDROCARBONS	306,753	17,334
	Ι	7849	OTHER PARTS & ACCESSORIES OF MOTOR VEHICLES	296,772	19,647
sia	Ι	5989	CHEMICAL PRODUCTS AND PREPARATIONS, N.E.S.	283,198	18,135
one	Ι	5121	ACYCLIC ALCOHOLS & THEIR HALOGENATED, DERIVATIVES	245,741	15,580
Indonesia	М	7284	MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND.	222,606	19,017
	0	7938	TUGS, SPECIAL PURPOSE VESSELS, FLOATING STRUCTURES	217,835	9,027
	0	7821	MOTOR VEHICLES FOR TRANSPORT OF GOODS/MATERIALS	210,690	16,254
	Ι	6782	SEAMLESSTUBES AND PIPES; BLANKS FOR TUBES & PIPES	196,176	7,611
	0	7234	CONSTRUCTION AND MINING MACHINERY, N.E.S.	195,787	15,514
	Ι	7764	ELECTRONIC MICROCIRCUITS	11,926,291	17,052
	I	7599	PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-	6,881,834	14,434
	0	7810	PASSENGER MOTOR CARS,FOR TRANSPORT OF PASS.& GOOD	6,213,942	16,660 12,637
ч	0	7924	AIRCRAFT EXCEEDING AN UNLADEN WEIGHT OF 15000 KG	4,220,178	12,637
Japan	0	7523	COMPLETE DIGITAL CENTRAL PROCESSING UNITS	4,072,387	24,163
Ja	I	7649	PARTS OF APPARATUS OF DIVISION 76-	3,444,135	15,621
	0	7524	DIGITAL CENTRAL STORAGE UNITS, SEPARATELY CONSIGNED	3,394,213 3,047,889	16,289 4,012
	0	8451	JERSEYS, PULL-OVERS, TWINSETS, CARDIGANS, KNITTED		
	0 0	8310 8510	TRAVEL GOODS,HANDBAGS,BRIEF-CASES,PURSES,SHEATHS FOOTWEAR	2,664,623	8,162 6,470
	U	8510		2,581,682	6,470

M 7284 MACH& APPLANCES FOR SPEZIALZED PARTICULAR IND. 2.154.851 19.01 I 7599 PARTS OF AND ACCESSORIES SUITABLE FOR 7512.752. 1.815.882 14.433 I 7649 PARTS OF AND ACCESSORIES SUITABLE FOR 7512.752. 1.815.882 1.382.362 18.132 I 76763 DIODESTRANSISTORS AND SINESMI-CONDUCTOR DEVICES 1.339.290 12.171 I 7763 DIODESTRANSISTORS AND SINESMI-CONDUCTOR DEVICES 1.339.290 12.172 I 7766 PIEZO-ELECTRIC CRYSTALS MOUNTED PARTS OF 776- 1.212.723 1.538 I 7768 PIEZO-ELECTRIC CRYSTALS MOUNTED PARTS OF 776- 9.191.687 15.388 I 7768 PIEZO-ELECTRIC CRYSTALS MOUNTED PARTS OF 776- 9.191.687 15.388 I 7764 ELECTRONCIMCCOCICUTS 8.335.827 1.4690.317 15.62 I 7764 PLECT ANACHINES OF PARTACUS OF UNITED ARTS OF 76- 1.216.008 13.78 I 7764 PLECT AND ACCESSORIES SUITABLE FOR 7512.752- 2.519.590 14.433 I 7722 PRINTED CIRCUTS AND PARTS THE		Ι	7764	ELECTRONIC MICROCIRCUITS	13,540,410	17,052
					2,154,851	19,017
Big Big Big Big Big Big Big Big Big Big					1,815,882	14,434
Provide 1 5989 CHEMICAL PRODUCTS AND PREPARATIONS.M.E.S. 1.382.362 18.132 M 7788 OTHER ELECTLACHINERY AND EQUIPMENT 1.341.709 13.17 I 7763 DIODESTRANSISTORS AND SIMSEM-CONDUCTOR DEVICES 1.339.200 12.172 I 7768 PIEZO-ELECTRIC CRYSTALS.MOUNTED PARTS OF 776- 1.212.723 15.388 I 7768 PIEZO-ELECTRIC CRYSTALS.MOUNTED PARTS OF 776- 1.0687.776 16.677 I 7768 PIEZO-ELECTRIC CRYSTALS.MOUNTED PARTS OF 776- 9.191.687 15.388 I 7764 PIEZO-ELECTRIC CRYSTALS.MOUNTED PARTS OF 776- 1.0690.317 15.528 I 7764 PARTS OF APARATUS OF PURSTUS OF 1076- 1.0690.317 15.272 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 1.298.959 13.17 I 7764 PARTS OF APARATUS OF PURSTUS OF 1076- 1.433.346 14.433 M 7784 PARTS OF APARATUS OF PURSTUS OF 1076- 1.216.008 13.78 I 7764 PARTS OF APARATUS OF 1076- 2.824.151 15.02	Rep.				1,794,350	15,621
Image: Provide and the set of th					1,382,362	18,135
UNIT 1 7765 DIODES, TRANSISTORS AND SIM SEMI-CONDUCTOR DEVICES 1.1319,443 1.468: I 7771 ELECTAP, SUGA SWITCHES, RELAYS, FUSE, PWGS ETC. 1.212,723 15,388 M 8710 OPTICAL, INSTRUMENTS AND APPARATUS 1.058,776 1.667,776 I 7768 PIEZO-ELECTRIC CRYSTALS, MOUNTED, PARTS OF 776- 9.191,687 15,388 I 7764 ELECTRONC MICROCIRCUTS 8,325,827 17,055 I 7769 PARTS OF AND ACCESSORIES SUITABLE FOR 7512-752- 2.519,9590 14,434 I 7764 ELECTRONC MICROCIRCUTS 8,325,827 13,77 I 7721 FIRE TLECT AND SUCH ACHINERY AND EQUIPMENT 1.298,959 13,78 I 7722 RINTED CIRCUTS AND PARTS THEREOF 1.143,344 14,68 I 7723 MICHA APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1.144,344 14,06 M 7784 BACILA A SPULANCES NOR SPEZIALIZED PARTICULAR IND. 1.144,344 14,06 M 7754 PLECTRONC MICROCIRCUTS 1.7648,99,965 12.107 <tr< td=""><td>rea</td><td></td><td></td><td></td><td>1,341,709</td><td>13,171</td></tr<>	rea				1,341,709	13,171
UP I 7721 ELECTAPP SUCH AS SWITCHES.RELAYS,FUSES,PWOS ETC. 1,319,443 14,682 I 7768 PREZO-ELECTRIC CRYSTALS,MOUNTED,PARTS OF 776- 1,212,723 15,388 M 8710 OPTICAL INSTRUMENTS AND APPARATUS 1.058,776 16,677 I 7768 PREZO-ELECTRIC CRYSTALS,MOUNTED,PARTS OF 776- 9,191,687 15,388 I 7764 ELECTRONIC MICROCIRCUITS 8,325,827 17,055 I 7764 PLACTS OF APPARATUS OF DYISION 76- 1,690,317 15,52 M 7788 OTHER ELECT MACHINERY AND EQUIPMENT 1,298,959 13,17 I 77721 PLECTAMOLINERS NON EPGLIPMENT 1,298,959 13,17 I 77732 PRITED CIRCUITS AND PARTS HEREOF 1,140,345 19,011 I 7763 DIODES,TRANSISTORS AND SIM SEMI-CONDUCTOR DEVICES 999,865 12,100 O 7810 PASSENCER NOTRE CARS FOR TRANSINGET OF 7512,752- 9,063,500 14,433 O 7524 DIGITAL CENTRAL STORAGE UNITS, SEPARATELY CONSIGNED 3,258,148 16,288 <t< td=""><td><math>\mathbf{K}_{0}</math></td><td></td><td></td><td>-</td><td>1,339,290</td><td>12,103</td></t<>	\mathbf{K}_{0}			-	1,339,290	12,103
Image: constraint of the instruments and apparatus 1,212,723 15,380 Image: constraint of the instruments and apparatus 1,058,776 1,667 Image: constraint of the instruments and apparatus 1,058,776 1,667 Image: constraint of the instruments and apparatus 1,058,776 1,667 Image: constraint of the instruments and apparatus 1,058,776 1,667 Image: constraint of the instruments and apparatus 1,058,776 1,667 Image: constraint of the instruments and apparatus 8,325,827 17,059 Image: constraint of the instruments and apparatus 1,289,959 13,17 Image: constraint of the instruments and apparatus 1,289,959 13,17 Image: constraint of the instruments and apparatus 1,289,959 13,17 Image: constraint of the instruments and apparatus 1,289,959 13,17 Image: constraint of the instruments and apparatus 1,289,959 13,17 Image: constraint of the instruments and apparatus 1,281,098 1,281,098 Image: constraint of the instruments and apparatus 1,281,098 1,281,098 Image: constraint of the instrant apparatus 1,216,008 1,378 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>14,682</td>						14,682
M 8710 OPTICAL INSTRUMENTS AND APPARATUS 1.058,776 16,677 I 7768 PIEZO-ELECTRIC CRYSTALS.MOUNTED.PARTS OF 776- 9,191,687 15,388 I 7764 ELECTRONIC MICROCIRCUITS 8,325,827 17,055 I 7649 PARTS OF AND ACCESSORIES SUITABLE FOR 751,2-752- 2,519,507 14,433 I 7649 PARTS OF AND ACCESSORIES SUITABLE FOR 751,2-752- 2,519,8959 13,177 I 77722 PRINTED CIRCUITS AND PARTS THEREOF 1,216,008 1,443,346 14,688 M 7784 ELECT.APP SUCH AS SWITCHES.RELAYS.FURSES.PWGS ETC. 1,140,345 19,017 I 7763 DIODES.TRANSISTORS AND SIM.SEMI-CONDUCTOR DEVICES 999,865 12,100 O 7810 PASSENGER MOTOR CARS.POR TRANSPORT OF PASS & GOOD 886,831 16,667 I 7764 ELECT.APP SUCH AS SWITCHES.RELAYS.FURSES.PWGS ETC. 17,784,221 17,055 I 7764 ELECTRONC MICROCIRCUITS 17,784,221 17,055 I 7768 PEZO ELECTRIC CRYSTALS.MOUNTED.PARTS OF 776- 2,289,477						15,380
I 7768 PIE2O-ELECTRIC CRYSTALS.MOUNTED.PARTS OF 776- I 9,191,687 15,388 I 7764 ELECTRONIC MICROCIRCUITS 8,325,827 17,055 I 7599 PARTS OF APD ACCESSORIES SUITABLE FOR 751,2-,752- 2,519,590 14,433 I 7649 PARTS OF APP ARATUS OF DIVISION 76- 1,600,317 1,600,317 I 7722 PRINTED CIRCUITS AND PARTS THEREOF 1,216,008 13,784 I 7721 ELECT AACHINERY AND EQUIPMENT 1,243,346 14,668 M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1,140,346 14,668 M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1,140,346 14,668 I 7764 ELECTRONIC MICROCIRCUITS 17,784,221 17,055 I 7764 ELECTRONIC MICROCIRCUITS 17,784,221 17,055 I 7649 PARTS OF APPARATUS OF DIVISION 76- 2,822,151 15,52 I 7764 PLECTARP SUCH AS SWITCHER RELAYS.PURSES PWGS ETC. 1931,954 14,683 M 7788 OTHER ELECT.MACHIN					1,058,776	16,677
USA 1 7764 ELECTRONIC MICROCIRCUTS 8.325.827 17.053 1 7599 PARTS OF AND ACCESSORIES SUITABLE FOR 751.2752- 2.519.590 14.43 1 7649 PARTS OF AND ACCESSORIES SUITABLE FOR 751.2752- 2.519.590 14.43 1 7649 PARTS OF APPARATUS OF DIVISION 76- 1.690.317 15.62 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 1.298.931 13.77 1 7721 ELECT.APP.SUCH AS SWITCHES.RELAYS.FUSES.PWOS ETC. 1.140.345 19.011 1 7763 DIODES,TRANSISTORS AND SIM SEMI-CONDUCTOR DEVICES 999.865 12.100 0 7810 PASSENCE MOTOR CARSFOR TRANSPORT OF PASS & GOOD 886.6831 16.666 1 7764 ELECTRONIC MICROCIRCUTS 17.784.221 17.057 1 7599 PARTS OF APPARATUS OF DIVISION 76- 2.825.818 0.62.821.51 1 7649 PARTS OF APPARATUS OF DIVISION 76- 2.829.477 15.388 1 7649 PARTS OF APPARATUS OF DIVISION 76- 2.822.511 15.522		Ι			9,191,687	15,380
I 7599 PARTS OF AND ACCESSORIES SUITABLE FOR 7512-752- 2.519.590 14.433 I 7649 PARTS OF APPARATUS OF DIVISION 76- 1.690.317 15.62 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 1.298.959 13.17. I 7722 PRINTED CIRCUITS AND PARTS THEREOF 1.216.008 13.78. M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1.140.345 19.01 I 7763 DIODES, TRANSISTORS AND SIM SEML-CONDUCTOR DEVICES 999.865 12.10 O 7810 PASSENGER MOTOR CARSFOR TRANSPORT OF PASS.4.900D 886.831 16.660 I 7764 ELECTENOIC MICROCIRCUITS 17.784.221 17.055 I 7649 PARTS OF APARATUS OF DIVISION 76- 2.822,151 15.622 I 7649 PARTS OF APARATUS OF DIVISION 76- 2.289.477 15.38 I 7649 PARTS OF APARATUS OF DIVISION 76- 2.282,151 15.622 I 7763 DIODES, TRANSISTORS AND SINSEMI-CONDUCTOR DEVICES 1931.954 14.682 M		Ι	7764		8,325,827	17,052
UNMAPPINE I 7649 PARTS OF APPARATUS OF DIVISION 76- 1.690.317 15,62 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 1.298,959 13,17 I 7722 PRINTED CIRCUITS AND PARTS THEREOF 1.216,008 13,78 I 7721 ELECT.APP SUCH AS SWITCHES.RELAYS,FUSES,PWGS ETC. 1.143,346 14,683 M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1.140,345 19,001 O 7810 PASSENGER MOTOR CARS.FOR TRANSPORT OF PASS & GOOD 886,831 16,666 O 7524 DIGITAL CENTRAL STORAGE UNITS.SEPARATELY CONSIGNED 3.258,148 16,228 I 7764 ELECTRANC MICROCINCUTTS 7,764,221 15,622 I 7764 ELECTRANCIRAL STORAGE UNITS.SEPARATELY CONSIGNED 3.258,148 16,228 I 7649 PARTS OF APPARATUS OF DIVISION 76- 2,822,151 15,622 I 7768 PIEZO-ELECTRIC CRYSTALS.MOUNTED,PARTS OF 776- 2,289,477 15,388 I 7761 ELECT.APP SUCH AS SWITCHES.RELAYS,FUSES,PWGS ETC. 1.931,954 <		Ι			2,519,590	14,434
NM 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 1.298,959 13,17 I 7722 PRINTED CIRCUITS AND PARTS THEREOF 1.216.008 13,78 I 7721 ELECT.APS SUCH AS SWITCHES.RELAYS, SUSES, PWOS ETC. 1.140,345 19,017 M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1.140,345 19,017 O 7810 PASSENGER MOTOR CARS, FOR TRANSPORT OF PASS.& GOOD 886,831 16,666 O 7810 PASSENGER MOTOR CARS, FOR TRANSPORT OF PASS.& GOOD 886,831 16,666 O 7514 ELECTERONIC MICROCINCUTTS 17,784,221 17,055 O 7524 DIGITAL CENTRAL STORAGE UNITS, SEPARATELY CONSIGNED 3,258,148 16,268 I 7649 PARTS OF APARATUS OF DIVISION 76 2,822,151 15,62 I 7768 PIEZO-ELECTRIC CRYSTALS, MOUTHED, PARTS OF 776 2,289,477 15,388 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 1,271,292 1,407 I 7761 ELECT.APS SUCH AS SWITCHES, RELAYS, FUSES, PWOS ETC. 1,31,934 14,668	_	Ι			1,690,317	15,621
I 7721 ELECT.APP.SUCH AS SWITCHES.RELAYS,FUSES,PWGS ETC. 1,143,346 14,685 M 77284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1,140,345 19,001 I 7763 DIODES,TRANSISTORS AND SIM.SEMI-CONDUCTOR DEVICES 999,865 12,100 O 7810 PASSENGER MOTOR CARS.FOR TRANSPORT OF PASS.& GOOD 886,831 16,666 I 7764 ELECTRONIC MICROCIRCUITS 17,784,221 17,052 I 7764 PARTS OF AND ACCESSORIES SUITABLE FOR 751.2752- 9,063,500 14,433 O 7524 DIGITAL CENTRAL STORAGE UNITS, SEPARATELY CONSIGNED 3,258,148 16,288 O 7524 DIGITAL CENTRAL STORAGE UNITS, MOUNTED, PARTS OF 776- 2,289,477 15,380 M 7788 OTHER ELECT MACHINERY AND EQUIPMENT 1,870,827 19,017 I 77761 ELECTRONC MICROCIRCUTS 1,42,75,299 12,010 I 7763 DIODES,TRANSISTORS AND SIM SEMI-CONDUCTOR DEVICES 1,659,250 12,100 I 7764 ELECTRONC MICROCIRCUTS 14,275,299 17,055	ysie	М	7788		1,298,959	13,171
I 7721 ELECT.APP.SUCH AS SWITCHES.RELAYS,FUSES,PWGS ETC. 1,143,346 14,685 M 77284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1,140,345 19,001 I 7763 DIODES,TRANSISTORS AND SIM.SEMI-CONDUCTOR DEVICES 999,865 12,100 O 7810 PASSENGER MOTOR CARS.FOR TRANSPORT OF PASS.& GOOD 886,831 16,666 I 7764 ELECTRONIC MICROCIRCUITS 17,784,221 17,052 I 7764 PARTS OF AND ACCESSORIES SUITABLE FOR 751.2752- 9,063,500 14,433 O 7524 DIGITAL CENTRAL STORAGE UNITS, SEPARATELY CONSIGNED 3,258,148 16,288 O 7524 DIGITAL CENTRAL STORAGE UNITS, MOUNTED, PARTS OF 776- 2,289,477 15,380 M 7788 OTHER ELECT MACHINERY AND EQUIPMENT 1,870,827 19,017 I 77761 ELECTRONC MICROCIRCUTS 1,42,75,299 12,010 I 7763 DIODES,TRANSISTORS AND SIM SEMI-CONDUCTOR DEVICES 1,659,250 12,100 I 7764 ELECTRONC MICROCIRCUTS 14,275,299 17,055	fala				1,216,008	13,784
M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1,140,345 19,017 I 7763 DIODES, TRANSISTORS AND SIM.SEMI-CONDUCTOR DEVICES 999,865 12,100 O 7810 PASSENGER MOTOR CARS.FOR TRANSPORT OF PASS.& GOOD 886,831 16,660 I 7764 ELECTRONIC MICROCIRCUITS 17,784,221 17,055 I 7599 PARTS OF AND ACCESSORIES SUITABLE FOR 751,2-,752. 9,063,500 14,433 O 7524 DIGITAL CENTRAL STORAGE UNITS, SEPARATELY CONSIGNED 3,258,148 16,288 I 7649 PARTS OF APPARATUS OF DIVISION 76. 2,822,151 15,622 I 7768 PIEZO-ELECTRIC CRYSTALS.MOUNTED.PARTS OF 776. 2,289,477 15,388 I 7764 MACH.& A SWITCHES RELAYS.FUSES.PWGS ETC. 1,931,954 14,682 M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1,870,827 19,017 I 7764 ELECT.MOPCHILS FOR SAPE SAND SIM.SEMI-CONDUCTOR DEVICES 1,659,250 12,100 I 7764 BIODES, TRANSISTORS AND SIM.SEMI-CONDUCTOR DEVICES 1,6	2				1,143,346	14,682
I 7763 DIODES,TRANSISTORS AND SIM.SEMI-CONDUCTOR DEVICES 999,865 12,103 0 7810 PASSENGER MOTOR CARS,FOR TRANSPORT OF PASS.4: GOOD 886,831 16,666 I 7764 ELECTRONIC MICROCIRCUITS 17,784,221 17,053 I 7764 ELECTRONIC MICROCIRCUITS 17,784,221 17,054 O 7524 DIGITAL CENTRAL STORAGE UNITS.SEPARATELY CONSIGNED 3,258,148 16,288 0 7524 DIGITAL CENTRAL STORAGE UNITS.SEPARATELY CONSIGNED 3,258,148 16,288 1 7649 PARTS OF APPARATUS OF DIVISION 76- 2,822,151 15,622 1 7768 PIEZO-ELECTRIC CRYSTALS.MOUNTED.PARTS OF 776- 2,289,477 15,388 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 2,274,292 13,177 I 7764 ELECTARP SUCH AS SWITCHES.RELAYS,FUSES,PWGS ETC. 1,931,954 14,682 M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1,870,827 19,017 I 7764 ELECTRONIC MICROCIRCUITS 1,4275,299 17,055					1,140,345	19,017
O 7810 PASSENGER MOTOR CARS.FOR TRANSPORT OF PASS.& GOOD 886,831 16,660 I 7764 ELECTRONIC MICROCIRCUITS 17,784,221 17,055 I 7599 PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752 9,063,500 14,433 O 7524 DIGITAL CENTRAL STORAGE UNITS.SEPARATELY CONSIGNED 3,258,148 16,289 I 7649 PARTS OF APPARATUS OF DIVISION 76- 2,822,151 15,62 I 7768 PIEZO-ELECTRIC CRYSTALS.MOUNTED.PARTS OF 776- 2,289,477 15,388 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 2,274,292 13,177 I 7721 ELECT.MACHINERY AND EQUIPMENT 1,870,827 19,017 I 7763 DIODES,TRANSISTORS AND SIM.SOUND RECORDINGS 1.602,773 25,318 M 7844 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 4,671,837 19,017 I 7764 ELECTRONIC MICROCIRCUITS 14,275,299 17,055 O 7524 DIGITAL CENTRAL STORAGE UNITS.SEPARATELY CONSIGNED 6,301,691 16,288					999,865	12,103
I 7764 ELECTRONIC MICROCIRCUITS 17,784,221 17,052 I 7599 PARTS OF AND ACCESSORIES SUITABLE FOR 751.2.,752. 9,063,500 14,433 O 7524 DIGITAL CENTRAL STORAGE UNITS.SEPARATELY CONSIGNED 3,258,148 16,288 I 7649 PARTS OF APPARATUS OF DIVISION 76- 2,822,151 15,622 I 7768 PIEZO-ELECTRIC CRYSTALS,MOUNTED,PARTS OF 776- 2,289,477 15,386 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 2,274,292 13,177 I 7761 DIODES,TRANSITORS AND SIM.SEMI-CONDUCTOR DEVICES 1,659,250 12,100 I 7763 DIODES,TRANSISTORS AND SIM.SOUND RECORDINGS 1,602,773 25,318 I 7764 ELECTRONIC MICROCIRCUITS 14,275,299 17,055 O 7524 DIGITAL CENTRAL STORAGE UNITS,SEPARATELY CONSIGNED 6,301,691 16,288 M 7284 MACH& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 4,671,837 19,017 I 7764 ELECTRONIC MICROCIRCUITS 14,275,299 17,055 <t< td=""><td></td><td>0</td><td></td><td></td><td>886,831</td><td>16,660</td></t<>		0			886,831	16,660
0 7524 Digital CENTRAL STORAGE UNITS.EPARATELY CONSIGNED 3,258,148 16,288 1 7649 PARTS OF APPARATUS OF DIVISION 76- 2,822,151 15,622 1 7768 PIEZO-ELECTRIC CRYSTALS,MOUNTED,PARTS OF 776- 2,289,477 15,386 1 7778 OTHER ELECT.APP.SUCH AS SWITCHES,RELAYS,FUSES,PWGS ETC. 1,931,954 14,668 M 7784 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1,870,827 19,017 1 7763 DIODES,TRANSISTORS AND SIM.SEMI-CONDUCTOR DEVICES 1,659,250 12,100 0 8983 GRAMOPHONE RECORDS AND SIM.SOUND RECORDINGS 1,602,773 25,318 1 7764 ELECTRONIC MICROCIRCUITS 14,275,299 17,052 0 7524 DIGITAL CENTRAL STORAGE UNITS,SEPARATELY CONSIGNED 6,301,691 16,288 M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 4,671,837 19,017 1 7764 ELECTRONIC MICROCIRCUITS 14,275,299 17,052 0 7524 DIGITAL CENTRAL STORAGE UNITS,SEPARATELY CONSIGNED 6,301,691		Ι			17,784,221	17,052
0 7524 DIGITAL CENTRAL STORAGE UNITS.SEPARATELY CONSIGNED 3,258,148 16,289 I 7649 PARTS OF APPARATUS OF DIVISION 76- 2,822,151 15,62 I 7768 PIEZO-ELECTRIC CRYSTALS,MOUNTED,PARTS OF 776- 2,289,477 15,386 M 7788 OTHER ELECT.APP.SUCH AS SWITCHES,RELAYS,FUSES,PWGS ETC. 1,931,954 14,683 M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1,870,827 19,017 I 7763 DIODES,TRANSISTORS AND SIM.SEMI-CONDUCTOR DEVICES 1,659,250 12,100 O 8983 GRAMOPHONE RECORDS AND SIM.SOUND RECORDINGS 1,602,773 25,311 O 7524 DIGITAL CENTRAL STORAGE UNITS.SEPARATELY CONSIGNED 6,301,691 16,288 M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 4,671,837 19,017 I 7764 ELECTRONIC MICROCIRCUITS 14,275,299 17,055 O 7524 DIGITAL CENTRAL STORAGE UNITS.SEPARATELY CONSIGNED 6,301,691 16,288 M 7248 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. <t< td=""><td></td><td>Ι</td><td>7599</td><td></td><td>9,063,500</td><td>14,434</td></t<>		Ι	7599		9,063,500	14,434
I 7649 PARTS OF APPARATUS OF DIVISION 76- 2,822,151 15,62 I 7768 PIEZO-ELECTRIC CRYSTALS,MOUNTED,PARTS OF 776- 2,289,477 15,380 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 2,274,292 13,17 I 7721 ELECT.APP.SUCH AS SWITCHES,RELAYS,FUSES,PWGS ETC. 1,931,954 14,682 M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1,870,827 19,017 I 7763 DIODES,TRANSISTORS AND SIM.SEMI-CONDUCTOR DEVICES 1,659,250 12,100 O 8983 GRAMOPHONE RECORDS AND SIM.SOUND RECORDINGS 1,602,773 25,318 I 7764 ELECTRONIC MICROCIRCUITS 14,275,299 17,055 O 7524 DIGITAL CENTRAL STORAGE UNITIS, SEPARATELY CONSIGNED 6,301,691 16,289 M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 4,671,837 19,017 I 7599 PARTS OF AND ACCESSORIES SUITABLE FOR 751,2-,752- 2,184,552 14,434 M 7416 MACH,PLANT & SIMLAB EQUIP.INVOLV.A TEMP.CHANGE 1,840,257		0	7524		3,258,148	16,289
I 7768 PIEZO-ELECTRIC CRYSTALS,MOUNTED,PARTS OF 776- 2,289,477 15,380 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 2,274,292 13,171 I 7721 ELECT.APP.SUCH AS SWITCHES,RELAYS,FUSES,PWGS ETC. 1,931,954 14,682 M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 1,870,827 19,017 I 7763 DIODES,TRANSISTORS AND SIM.SEMI-CONDUCTOR DEVICES 1,659,250 12,107 O 8983 GRAMOPHONE RECORDS AND SIM.SOUND RECORDINGS 1,602,773 25,318 I 7764 ELECTRONIC MICROCIRCUITS 14,275,299 17,055 O 7524 DIGITAL CENTRAL STORAGE UNITS,SEPARATELY CONSIGNED 6,301,691 16,286 M 7284 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 4,671,837 19,017 I 7599 PARTS OF AND ACCESSORIES SUITABLE FOR 751,2-,752 2,184,552 14,434 M 7416 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND. 4,671,837 19,017 I 7721 ELECT.APP.SUCH AS SWITCHES,RELAYS,FUSES,PWGS ETC. 1,730	0	Ι	7649		2,822,151	15,621
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Image: Note of the second state of the seco		М	7284		1,870,827	19,017
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M 7224 DIGITAL CLIMAL STORAGE UNITS, SEPARATELET CONSIDED 4,671,837 19,017 I 7599 PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752- 2,184,552 14,434 M 7416 MACH,PLANT & SIM,LAB,EQUIP, INVOLV.A TEMP,CHANGE 1,840,257 13,077 I 7721 ELECT.APP.SUCH AS SWITCHES,RELAYS,FUSES,PWGS ETC. 1,730,691 14,682 I 5989 CHEMICAL PRODUCTS AND PREPARATIONS,N.E.S. 1,706,517 18,132 I 7763 DIODES,TRANSISTORS AND SIM,SEMI-CONDUCTOR DEVICES 1,691,680 12,103 I 6725 BLOOMS,BILLETS,SLABS & SHEET BARS OF IRON OR STEEL 1,609,921 7,648 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 1,493,057 13,177 I 7764 PIEZO-ELECTRIC CRYSTALS,MOUNTED,PARTS OF 776- 2,664,272 15,380 I 7799 PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752- 2,239,371 14,434 I 7764 ELECTRONIC MICROCIRCUITS 2,202,747 17,052 O 7924 AIRCRAFT EXCEEDING AN UNLADEN WEIGHT OF 15000 KG 1,611,338		Ι	7764	ELECTRONIC MICROCIRCUITS	14,275,299	17,052
Image: Parts of and accessories suitable for 751.2-,752- 2,184,552 14,434 M 7416 MACH.PLANT & SIM.LAB.EQUIP.INVOLV.A TEMP.CHANGE 1,840,257 13,071 I 7721 ELECT.APP.SUCH AS SWITCHES,RELAYS,FUSES,PWGS ETC. 1,730,691 14,682 I 5989 CHEMICAL PRODUCTS AND PREPARATIONS,N.E.S. 1,706,517 18,133 I 7763 DIODES,TRANSISTORS AND SIM.SEMI-CONDUCTOR DEVICES 1,609,921 7,648 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 1,493,057 13,177 I 7768 PIEZO-ELECTRIC CRYSTALS,MOUNTED,PARTS OF 776- 2,664,272 15,380 I 7764 ELECTRONIC MICROCIRCUITS 2,202,747 17,055 I 6997 ARTICLES OF IRON OR STEEL, N.E.S. 1,329,656 14,682 I 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 1,611,338 12,633 I 7764 ELECTRONIC MICROCIRCUITS 2,202,747 17,055 I 6997 ARTICLES OF IRON OR STEEL, N.E.S. 1,329,656 14,589 I 6997 ARTIC		0	7524	DIGITAL CENTRAL STORAGE UNITS, SEPARATELY CONSIGNED	6,301,691	16,289
M 7416 MACH.PLANT & SIM.LAB.EQUIP.INVOLV.A TEMP.CHANGE 1,840,257 13,07. I 7721 ELECT.APP.SUCH AS SWITCHES,RELAYS,FUSES,PWGS ETC. 1,730,691 14,682 I 5989 CHEMICAL PRODUCTS AND PREPARATIONS,N.E.S. 1,706,517 18,132 I 7763 DIODES,TRANSISTORS AND SIM.SEMI-CONDUCTOR DEVICES 1,691,680 12,102 I 6725 BLOOMS,BILLETS,SLABS & SHEET BARS OF IRON OR STEEL 1,609,921 7,648 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 1,493,057 13,177 I 7768 PIEZO-ELECTRIC CRYSTALS,MOUNTED,PARTS OF 776- 2,664,272 15,380 I 7764 ELECTRONIC MICROCIRCUITS 2,202,747 17,055 O 7924 AIRCRAFT EXCEEDING AN UNLADEN WEIGHT OF 15000 KG 1,611,338 12,637 I 77721 ELECT.APP.SUCH AS SWITCHES,RELAYS,FUSES,PWGS ETC. 1,003,479 14,682 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 872,248 13,177 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 872,248 13,177		Μ	7284	MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND.	4,671,837	19,017
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I 5989 CHEMICAL PRODUCTS AND PREPARATIONS,N.E.S. 1,706,517 18,133 I 7763 DIODES,TRANSISTORS AND SIM.SEMI-CONDUCTOR DEVICES 1,691,680 12,103 I 6725 BLOOMS,BILLETS,SLABS & SHEET BARS OF IRON OR STEEL 1,609,921 7,648 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 1,493,057 13,177 I 7768 PIEZO-ELECTRIC CRYSTALS,MOUNTED,PARTS OF 776- 2,664,272 15,380 I 7764 ELECTRONIC MICROCIRCUITS 2,202,747 17,052 I 7764 ELECTRONIC MICROCIRCUITS 2,202,747 17,052 O 7924 AIRCRAFT EXCEEDING AN UNLADEN WEIGHT OF 15000 KG 1,611,338 12,637 I 6997 ARTICLES OF IRON OR STEEL, N.E.S. 1,329,656 14,589 I 6997 ARTICLES OF IRON OR STEEL, N.E.S. 1,003,479 14,682 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 872,248 13,177 M 8939 MISCELLANEOUS ART.OF MATERIALS OF DIV.58 811,267 18,788	wan	Μ	7416	MACH.PLANT & SIM.LAB.EQUIP.INVOLV.A TEMP.CHANGE	1,840,257	13,071
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O 7924 AIRCRAFT EXCEEDING AN UNLADEN WEIGHT OF 15000 KG 1,611,338 12,637 I 6997 ARTICLES OF IRON OR STEEL, N.E.S. 1,329,656 14,588 I 7721 ELECT.APP.SUCH AS SWITCHES, RELAYS, FUSES, PWGS ETC. 1,003,479 14,682 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 872,248 13,172 M 8939 MISCELLANEOUS ART.OF MATERIALS OF DIV.58 811,267 18,788		Ι	7599	PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-	2,239,371	14,434
I 6997 ARTICLES OF IRON OR STEEL, N.E.S. 1,329,656 14,589 I 7721 ELECT.APP.SUCH AS SWITCHES,RELAYS,FUSES,PWGS ETC. 1,003,479 14,682 M 7788 OTHER ELECT.MACHINERY AND EQUIPMENT 872,248 13,171 M 8939 MISCELLANEOUS ART.OF MATERIALS OF DIV.58 811,267 18,789		Ι	7764	ELECTRONIC MICROCIRCUITS	2,202,747	17,052
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M 8939 MISCELLANEOUS ART. OF MATERIALS OF DIV.58 811,267 18,789	L	М	7788		872,248	13,171
			8939	-	811,267	18,789
I //01 TELEVISION PICTURE TUBES, CATHODE RAY 003,075 12,64.		Ι	7761	TELEVISION PICTURE TUBES, CATHODE RAY	803,673	12,841
		Ι			679,681	19,647