
Article

Econometric Models of Selected Countries in Asia

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I Introduction

Currently UNCTAD has econometric models for 47 individual developing countries together with 3 regional models for developing economies and a sub-regional model for a group of 13 least developed countries. The individual models vary somewhat in complexity, but each contains on average from 20 to 30 stochastic relationships. The individual models take as exogenous the volume and value of world trade, commodity price, and the availability of financial flows. Commodity prices are determined by means of simple global commodity models. In projection exercises, the values of the exogenous variables; e.g. the volume and value of world trade, are taken from Project LINK. The country and regional models contain simple supply functions for agriculture, usually trend related, and standard fixed-coefficient production functions for the non-agricultural sector containing arguments which include capital stock and the volume of imports.

Exports and import functions are in most cases distinguished for 4 broad commodity groups. Gross external financial requirements are generated by means of sub-models explaining debt service payments.

With this system of models, UNCTAD produces capital requirements estimates based on different assumptions regarding the pace of world growth and the pattern of global development. Given the structure of the models, they are best used for medium term projections.

These models are not designed to deal with long-term structural changes and interdependencies. For example, since each model is linked directly to variables measuring world growth and trade, it is difficult to take into account satisfactorily the shifting pattern of trade and particularly the growth of trade among developing countries. The modelling of production relations in most of the models precludes the possibility of measuring inter-relationships between domestic production structures on the one hand and the pattern of international trade on the other.

In order to deal with these issues a work program has been initiated in the Division of Money, Finance and Development to

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The views expressed in this paper are those of the author and do not necessarily reflect the opinions of the UNCTAD secretariat.

build a global analytical framework designed to embrace long-term structural change in the world economy.

II Basic Characteristics of Individual Country Models in Asia

Econometric models of varying degrees of disaggregation were constructed and tested for predictive accuracy for 15 countries in Asia.¹⁾

An aggregate production function was estimated for Bangladesh, Hong Kong and the three Middle East countries relating YD to capital stock and in some cases to imports. For the rest, the supply of output is divided into two sectors: agriculture and non-agriculture. In general, a simple trend equation is used to estimate agricultural production. In the models of India, Korea and Thailand, a dummy variable for weather is introduced as another explanatory variable. Non-agricultural output is related to capital stock and imports. Imports enter directly into the production or capacity utilization function of seven countries—Bangladesh, India, Indonesia, Korea, Lebanon, Singapore and Thailand. The concept of capacity output proved to be statistically significant only for India and Thailand and here the supply constraints of capital goods and raw materials, both imported and domestic, and cumulative investment explain adequately the variations in capacity utilization.

The incremental capital output ratio

ranges from a low of 1.6 for Singapore to 4.1 for India. It appears that, with the exception of Pakistan, the MSA countries have higher ICORs, although Hong Kong, Jordan, Lebanon and the Philippines were also in the 3.4 and above range. This could be partly attributed to the fact that the sample period in the MSA countries includes years in which there was a lot of unutilized capacity.

On the expenditure side, private consumption is distinguished from government consumption. In general, the variables in the private consumption function, except for the variable acting as a proxy for income distribution, are on a per capita basis. The income variable—gross national product—was adjusted for terms of trade effect and, for seven countries, taxes were deducted to come closer to a disposable income measure. With the exception of Hong Kong, for the higher income group in South East Asia, past patterns of consumer behaviour as represented by lagged private consumption were highly significant. The short-run marginal propensity to consume in these countries ranged from 0.28 for Singapore to 0.46 for the Philippines. Income distribution between agricultural and non agricultural sector measured by the ratio of either income or prices (in the case of Thailand) between the two sectors proved to be an important determinant of the level of private consumption in India, Korea, Pakistan, the Philippines and Thailand. As expected, the coefficient appears with a positive sign, since the propensity to consume is likely to be higher in the agricultural sector of

1) South and East Asia: Bangladesh, Hong Kong, India, Indonesia, Korea, Malaysia, Pakistan, Philippines, Singapore, Sri Lanka, Taiwan Province, Thailand; Middle East: Jordan, Lebanon and Syria.

Table 1 Asia: Main Parameters Derived from Model Simulations over the sample Period

Country	Model sample period	Incremental capital output ratio	Export elasticity	Import elasticity	Impact of imports on <i>YD</i>		
					Total	Direct	Indirect
Bangladesh	1961-72	3.45	0.14	1.77	0.57	0.46	0.11
Hong Kong	1961-72	3.42	1.52	1.34	—	—	—
India	1955-73	4.11	0.34	0.35	0.48	0.38	0.10
Indonesia	1961-73	2.20	0.83	1.77	0.92	0.83	0.09
Jordan	1955-72	3.40	1.29	0.71	0.04	—	0.04
Korea, Rep. of	1955-73	2.10	3.76	2.26	0.87	0.75	0.12
Lebanon	1961-73	3.80	2.19	1.16	1.50	1.48	0.02
Malaysia	1962-73	2.61	0.79	0.47	0.08	—	0.08
Pakistan	1960-72	2.80	0.82	0.15	0.19	—	0.19
Philippines	1955-73	3.60	0.77	0.61	0.15	—	0.15
Singapore	1961-72	1.60	0.57	0.85	0.42	0.32	0.10
Sri Lanka	1955-73	4.07	0.22	0.13	—	—	—
Syria	1963-73	2.56	0.51	1.15	0.16	—	0.16
Taiwan	1955-73	1.96	2.43	1.52	0.16	—	0.16
Thailand	1958-73	2.86	0.81	1.38	0.65	0.38	0.27

Source: UNCTAD secretariat.

countries where small and medium-size farms generate the bulk of rural income. In Korea and Thailand, a breakdown into food and non-food private consumption is given.

Government consumption is related to tax revenues in seven countries and to gross domestic product in other countries where tax data were not readily available.

The main determinants of fixed investment are the level of income, imports, terms of trade between agriculture and non-agriculture and fixed investment lagged one year. In the case of Korea and Malaysia, all these variables appear in the investment equation. For the other countries, however, some of these variables are not statistically significant. The level of income, whether present or preceding year or both, which serves as a proxy for demand expectations, is significant in all of the

countries. With the exception of Hong Kong and Sri Lanka, either imports of SITC 5-9 or total imports of goods, which serve as a proxy for the availability of investment goods, are important in determining fixed investment.

In the trade sector, exports were disaggregated into four main commodity groups in the models of India, Korea, Malaysia, the Philippines, Singapore and Thailand. For imports, in addition to the countries just mentioned, Hong Kong and Taiwan had import disaggregation. For the rest of the Asian countries, aggregate export and import equations were estimated.

In whatever form they appear, the export functions are basically similar in that exports depend primarily on world demand; the only distinction being in the use of world exports of specific commodity groups in cases where exports are disaggregated.

In India, however, manufactured goods exports are supply-determined. A comparison of the elasticity with respect to world exports among the countries in Asia shows that, as expected, the semi-industrialized export-oriented countries, with the exception of Singapore, registered the highest elasticity—Korea (3.8), Taiwan (2.4) and Hong Kong (1.5). Lebanon and Jordan also had elasticities higher than unity, indicating an increasing share in world exports. Also as expected, the lowest elasticities recorded are in the MSA countries—Bangladesh (0.1), Sri Lanka (0.2) and India (0.3).

Imports (other than M_{0+1}) are related to an activity variable measured either by *GDP* or non-agricultural production. M_{0+1} are determined by private consumption and in India and Malaysia by agricultural output lagged one year. In six countries—Bangladesh, India, Indonesia, Korea, Sri Lanka, and Taiwan—the level of international reserves deflated by import price proved to be a major constraint on import demand.

Whether the model is able to capture adequately the impact of imports on *GDP* depends not only on the size of the import coefficient in the production function but also on the size of the import coefficient in the fixed investment equation, which in turn enters in the capital stock variable of the production function. As mentioned previously, imports enter directly in the production functions of only seven countries. The total impact of imports on *GDP* measured by the change in *GDP* brought about by a unit change in imports is derived

by adding the indirect effect via fixed investment. The results for the seven countries are :Lebanon (1.50), Indonesia (0.92), Korea (0.87) Thailand (0.65), Bangladesh (0.57), India (0.48) and Singapore (0.42). In general the size of this parameter appears to be related directly to the size of the import elasticity observed in the sample period. Among these countries, only India and Singapore have elasticities less than unity. For the other countries, the level of imports affect production only indirectly, through investment, and the size of the parameter is quite small, ranging from 0.04 to 0.19. In the models of Hong Kong and Sri Lanka, imports do not appear either in the production or investment function.

III Projections

For the projections, the unit value index of exports and imports were related to the weighted average spot prices of the commodities traded. The weights, as shown in Tables 2 and 3 were based on the share of these commodities to total exports or imports in 1970–1972.

To test their predictive accuracy, the models were simulated for the observation period—usually the last 10 to 14 years of the model sample period. The mean absolute percentage errors of key variables are presented in Table 4. As far as *GDP* is concerned, the models' performance was highly satisfactory. The exception is Jordan, which registered the largest error of 9.4 per cent. For the others, the percentage errors ranged from a low of 1.35 for Malaysia to 4.89 for Pakistan, with

Table 2 Asia: Share of Individual Commodities or Commodity Groupings in total Country Exports, Average 1970-72

Commodities	Bangla- desh	Hong Kong	India	Indo- nesia	Jordan	Korea	Lebanon	Malay- sia	Pakistan	Philip- pines	Singa- pore	Sri Lanka	Syria	Taiwan	Thai- land
PXW0+1									.0132	.0808				.1324	
PXW2+4									.0279	.0030				.0009	
PMW3				.3945				.0526			.0004		.2025	.0011	
PW332		.0025	.0088	.0392		.0077		.0257	.0175	.0174	.2449		.0016	.0043	.0079
PXD5-9	.5850	.7365	.5380		.3953	.8186	.6475	.1120	.5621	.1040	.3761	.0110	.1120	.7071	.0540
PXWNFM															
PXG0+1	.0030														
PXG2+4															
PXGNFM															
Aluminum							.0231								
Animal Fat															
Banana			.0002		.0079		.0037	.0004		.0121					.0002
Bauxite			.0006	.0049				.0034							
Beef													.0009		
Cereal		.0036							.0021		.0099			.0022	
Cocoa				.0002	.0003			.0011				.0031			
Coffee		.0042	.0186	.0520				.0003			.0214		.0009		
Coconut Oil				.0023				.0060		.1142	.0058	.0630			
Copper															
Copper Ore										.1623					
Copra				.0125				.0021		.0903		.0174			
Cotton		.0514	.0076				.0004		.2376				.3839		.0001
Fats															
Fertilizer					.1974				.0031		.0054		.0009	.0014	
Flax															
Fruit					.2884		.1469								.1001
Groundnuts			.0038	.0030			.0019						.0088		.0013

Groundnut Oil							.0001					.0009	
Hides		.0010	.0086	.0026		.0243	.0011	.0047	.0002	.0003	.0041	.0029	
Iron Ore	.0031	.0713	.0007		.0026		.0084		.0139		.0009	.0282	.0001
Jute	.3780	.0030											.0495
Lead													
Lumber		.0043	.1250			.0004	.1595		.2056	.0208	.0028	.0847	.0154
Maize			.0056			.0004							.1101
Manganese Ore		.0071											
Nonferrous Ore												.0069	
Nickel Ore													
Olive Oil				.0110									
Palm Kernel													
Palm Oil			.0322				.0636			.0203			
Pulp													
Rice		.0019					.0003	.0715					.1881
Rubber			.1762				.2821		.0003	.1817	.1850		.1093
Sisal		.0001	.0001										
Soybean Oil				.0006						.0030			
Soybean Meal													
Sugar		.0176		.0005	.0005	.0007	.0013	.0030	.1827			.0308	.0192
Tea	.0200	.0948	.0214		.0006	.0004	.0007			.5945	.0083		.0001
Tin		.0001	.0271				.1787						.0884
Tin Ore			.0233										
Tobacco	.0035	.0271	.0103	.0026	.0116	.0097	.0002	.0104	.0132	.0077	.0150	.0189	.0144
Wheat				.0026		.0007	.0001					.0217	
Wool		.0025				.0157		.0083				.0194	
Zinc													
Zinc Ore													
Others	.0140	.1952	.1916	.0609	.0908	.1584	.1242	.1003	.0404	.1116	.1107	.2124	.2380

L. E. SABATER: Econometric Models of Selected Countries in Asia

Sources: IBRD *Commodity Trade and Price Trends* (1974 edition); UN *Yearbook of International Trade Statistics, 1972-1973*; National publications.

Table 3 Asia: Share of Individual Commodities or Commodity Groupings in Total Imports, Average 1970-72

Commodities	Bangladesh	Hong Kong	India	Indonesia	Jordan	Korea	Lebanon	Malaysia	Pakistan	Philippines	Singapore	Sri Lanka	Syria	Taiwan	Thailand
PXW0+1	.1133	.0793	.0127	.0483	.0766	.0159	.0866	.0607	.0109	.0475	.0530	.0494	.0507	.1403	.0294
PXW2+4	.1130	.0349	.0270	.0035	.0195	.0434	.0465	.0220	.0349	.0392	.0163	.0135	.0237	.0095	.0371
PMW3	.0224	.0307	.1018	.0262	.0479	.0868	.0551	.1190	.0773	.1310	.1452	.0766	.0447	.0619	.1024
PW332															
PXD5-9	.5997	.7081	.5997	.8350	.6103	.5756	.6637	.5819	.5417	.6607	.6248	.4377	.6448	.6397	.7485
PXWNFM															
PXG0+1															
PXG2+4															
PXGNFM															
Aluminum															
Animal Fat			.0091			.0068	.0037		.0108						
Banana															
Bauxite															
Beef		.0063			.0054		.0041								
Cereal		.0069	.0040	.0152	.0522	.0114	.0111	.0186	.0028	.0099	.0034	.1016	.0170	.0014	.0047
Cocoa										.0023					
Coffee		.0012			.0076		.0059	.0020					.0035		
Coconut Oil															
Copper															
Copper Ore															
Copra	.0244							.0005	.0023						
Cotton	.0006	.0246	.0620	.0134		.0339	.0043	.0022		.0166	.0036	.0071			.0236
Fats															
Fertilizer	.0135		.0609	.0292	.043	.0147	.0078	.0147	.0233	.0187	.0094	.0325	.0167	.0024	.0262
Flax															
Fruit					.0407		.0029								.0019
Groundnuts															

Groundnut Oil								.0004																	
Hides						.0040	.0169						.0027												
Iron Ore						.0110																		.0751	
Jute												.0081													
Lead																									
Lumber		.0038				.0088	.0559	.0178	.0009	.0120		.0138		.0203	.0456	.0030									
Maize		.0023		.0020	.0108	.0091	.0098	.0054																	
Manganese Ore																									
Nonferrous Ore						.0051		.0035																.0238	
Nickel Ore																									
Olive Oil						.0001																			
Palm Kernel																									
Palm Oil												.0126													
Pulp																									
Rice	.0224	.0168	.0132	.0083	.0135	.0408	.0043	.0297	.0028	.0233	.0132	.0923	.0140												
Rubber	.0007		.0020			.0089		.0100	.0049	.0032	.0504														
Sisal																									
Soybean Oil			.0116		.0105					.0246															
Soybean Meal											.0028														
Sugar		.0058		.0171	.0528	.0169	.0115	.0254	.0734		.0050	.1157	.0563	.0001											
Tea					.0098		.0047		.0479				.0101												
Tin									.0335																
Tin Ore																									
Tobacco		.0106		.0019	.0111		.0169	.0215		.0041	.0078		.0116	.0002	.0191										
Wheat	.0900	.0024	.0647		.0143	.0508	.0170	.0139	.1052	.0238	.0038	.0110	.0322		.0041										
Wool		.0071	.0077			.0090	.0050		.0050				.0069												
Zinc																									
Zinc Ore																									
Other		.0592	.0236		.0038		.0044	.0342	.0121	.0197	.0349	.0626	.0448												

Sources: IBRD *Commodity Trade and Price Trends* (1974 edition); UN *Yearbook of International Trade Statistics*, 1972-1973; National publications.

Table 4 Asia: Mean Absolute Percentage Errors of Selected Variables for the Sample Period

Country	Sample period	<i>YD</i>	<i>XG</i>	<i>MG</i>	<i>IF</i>	<i>P</i>
SOUTH & EAST ASIA						
Bangladesh	1961-72	2.06	4.14 ^{a)}	3.66 ^{a)}	7.60	3.47
Hong Kong	1961-72	2.28	2.39	5.74	6.34	3.62
India	1960-73	1.99	3.21	6.76	5.72	4.58
Indonesia	1961-73	2.23	13.35	10.00	10.02	—
Korea	1961-73	3.09	18.19	12.00	20.94	4.92
Malaysia	1962-73	1.35	4.16	5.11	5.37	1.21
Pakistan	1960-72	4.89	5.31 ^{a)}	7.39 ^{a)}	10.63	3.40
Philippines	1960-73	1.39	6.54	6.95	4.94	2.64
Singapore	1962-72	3.29	14.35	3.93	12.98	2.37
Sri Lanka	1961-73	2.69	5.59	16.65	9.75	3.21
Taiwan Province	1960-73	2.59	8.37	8.93	7.21	2.17
Thailand	1960-73	2.01	8.09	6.47	8.61	2.40
MIDDLE EAST						
Jordan	1960-72	9.36	9.71	7.30	10.40	3.94
Lebanon	1961-73	4.74	6.13	6.23	4.55	1.94
Syria	1964-73	3.93	6.45	8.06	9.46	2.14

^{a)} Errors based on total goods and services.

$$\text{Note: Mean absolute percentage error} = \frac{1}{n} \sum_{t=1}^n \left| \frac{\text{Predicted}_t - \text{Actual}_t}{\text{Actual}_t} \right| \cdot 100$$

most of the countries within the 2 to 3 range. This is not surprising, given the supply equations in most of the country models which have a very good fit explaining 90 per cent or more of the variations in output. Again, the only exception is Jordan, where the coefficient of determination of the production function is only 0.74. The *GDP* price deflator equation also predicted very well with the highest error of less than 5 per cent.

The performance of the trade sector was quite satisfactory with errors generally less than 10 per cent, except in four countries—Korea and Indonesia for both exports and imports, Singapore for exports alone, and Sri Lanka for imports. The 17 per cent error recorded for Sri Lanka could

be attributed to the rather poor fit of the import equation which was chosen because the coefficients, though not highly significant, pointed in the right direction. Also, other equations were tested to improve the estimates but no significant difference was noted.

The weakest function in terms of predictive ability among the key variables presented is fixed investment. In five countries—Indonesia, Jordan, Korea, Pakistan and Singapore—the equations selected yielded poor simulation results or errors higher than 10 per cent. A look at the coefficient of determination, however, reveals that variations in fixed investment are well explained by the equations and among the five countries mentioned only

Pakistan registered R^2 of less than 90 per cent. The poor results may be explained by the relatively small value of the variable (at most 25 per cent of YD) which makes it quite sensitive to errors in the independent variables such as imports and YD .

Thus, on the basis of these selected variables, in general, the Malaysian model performed consistently well with errors only ranging from 1.2 per cent to 5.4 per cent. The other models, which showed a fairly satisfactory performance are those of Hong Kong, India, Lebanon and the Philippines.

IV Econometric Models of Selected Countries in Asia

Explanation of Symbols

Unless otherwise specified, value variables are measured in millions of domestic currency at constant 1970 prices. Those bearing the symbol (\$) are in million U.S. dollars. An asterisk (*) denotes that the variables are in current prices. All price variables are in index form. Index variables, except price variables, are preceded by (I.). All index numbers are in base 1970=1. Variables preceded by (C.) are cumulative, by (DU) are dummy variables, by (R.) are in annual percentage rates of growth and by (L.) are measured in logarithms. Lags are indicated by the subscript ($-i$), where i is the number of years lagged.

Figures in parentheses below the coefficients are t values. R^2 is the coefficient of determination adjusted for degrees of freedom and S.E. is the adjusted standard error of the estimate. Y is the value of the dependent variable for the year specified and d is the Durbin-Watson statistic.

Sources of Data

The primary sources of data on expenditure and industrial origin of gross domestic product are estimates prepared by the Center for Development Planning, Projections and Policies (CDPPP) and the National Accounts Questionnaires of the United Nations. National sources were used for the following countries: Korea—*Economic Statistics Yearbook* and *Monthly Economic Statistics*, Bank of Korea; Malaysia—*Economic Report* of the Treasury, *Quarterly Economic Bulletin*, Bank Negara Malaysia; Taiwan—*Statistical Data Book*, Economic Planning Council; and Thailand—*National Income of Thailand*, National Economic and Social Development Board.

The sources of trade and other data are: UN *Monthly Bulletin of Statistics*, UN *Yearbook of International Trade Statistics*, IMF *International Financial Statistics*, IMF *Balance of Payments Yearbook* (IMFBOP) and national publications.

List of Variables

C	=Consumption expenditure
CG	=Government consumption
CP	=Private consumption
CPF	=Private consumption of food
$CPNF$	=Private consumption of non-food items
E	=Index of exchange rate
ER	=Exchange rate in units of domestic currency per U.S. dollar
F	=Net foreign capital inflow
I	=Investment expenditure
IF	=Investment in fixed assets

<i>IS</i>	=Investment in inventories	<i>PM₃\$S²⁾</i>	=Weighted index of spot prices of imports of SITC 3
<i>L</i>	=Index of money supply	<i>PM₅₋₉\$O</i>	=Weighted index of export prices of SITC 5—9 of principal sources of imports
<i>M</i>	=Imports of goods and non-factor services	<i>PNA</i>	=Implicit price deflator, non-agricultural sector
<i>M\$*B</i>	=Imports of goods and non-factor services (from IMFBOP)	<i>PW</i>	=Unit value index of world exports
<i>MG</i>	=Imports of goods, c.i.f.	<i>PW₀₊₁</i>	=Unit value index of world exports of SITC 0+1
<i>MG\$*FB</i>	=Imports of goods, f.o.b. (from IMFBOP)	<i>PW₂₊₄</i>	=Unit value index of world exports of SITC 2+4
<i>MS</i>	=Imports of non-factor services	<i>PW₃</i>	=Unit value index of world exports of SITC 3
<i>MS\$*B</i>	=Imports of non-factor services (from IMFBOP)	<i>PX</i>	=Implicit price deflator of exports
<i>M₀₊₁</i>	=Imports of food, beverage and tobacco (SITC 0+1)	<i>PX₀₊₁\$S²⁾</i>	=Weighted index of spot prices of exports of SITC 0+1
<i>M₀₋₉</i>	=Imports of SITC 0 to 9	<i>PX₀₋₉\$S</i>	=Weighted index of spot prices of exports of SITC 0 to 9
<i>M₂₊₄</i>	=Imports of raw materials, excluding fuels (SITC 2+4)	<i>PX₂₊₄\$S²⁾</i>	=Weighted index of spot prices of exports of SITC 2+4
<i>M₂₋₉</i>	=Imports of SITC 2 to 9	<i>PX₃\$S¹⁾</i>	=Weighted index of spot prices of exports of SITC 3
<i>M₃</i>	=Imports of fuels (SITC 3)	<i>PX₅₋₉\$S²⁾</i>	=Weighted index of spot prices of exports of SITC 5 to 9
<i>M₅₋₉</i>	=Imports of manufactured goods (SITC 5 to 9)	<i>PXD\$₅₋₉</i>	=Unit value index of exports of SITC 5 to 9 of developed countries
<i>N</i>	=Population in millions	<i>R</i>	=International reserves
<i>P</i>	=Implicit price deflator of gross domestic product	<i>TFP\$*B</i>	=Private transfers, net (from IMFBOP)
<i>PA</i>	=Implicit price deflator, agricultural sector	<i>TIME</i>	=Time trend
<i>PM</i>	=Implicit price deflator of imports	<i>TX</i>	=Tax revenue
<i>PM₀₊₁\$S²⁾</i>	=Weighted index of spot prices of imports of SITC 0+1	<i>TG</i>	=Trade gap
<i>PM₀₋₉\$S</i>	=Weighted index of spot prices of imports of SITC 0 to 9	<i>UC</i>	=Capacity utilization
<i>PM₂₊₄\$S²⁾</i>	=Weighted index of spot prices of imports of SITC 2+4	<i>X</i>	=Exports of good and non-factor services

2) If the letter S is omitted, variable refers to unit value index of specific commodity group of either imports (*M*) or exports (*X*).

$X\$*B$	=Exports of goods and non-factor services (from IMFBOP)
XG	=Exports of goods, f.o.b.
$XG\$*B$	=Exports of goods, f.o.b. (from IMFBOP)
XS	=Exports of non-factor services
$XS\$*B$	=Exports of non-factor services (from IMFBOP)
X_{0+1}	=Exports of food, beverage and tobacco (SITC 0+1)
X_{0-9}	=Exports of SITC 0 to 9
X_{2+4}	=Exports of raw materials, excluding fuels (SITC 2+4)
X_3	=Exports of fuels (SITC 3)
X_{5-9}	=Exports of manufactured goods (SITC 5 to 9)
XW	=World exports
XW_{0+1}	=World exports of food, beverage and tobacco (SITC 0+1)
XW_{2+4}	=World exports of raw materials, excluding fuels (SITC 2+4)
XW_3	=World exports of fuels (SITC 3)
XW_{5-9}	=World exports of manufactured goods (SITC 5 to 9)
Y	=Value added in all sectors of the economy
YA	=Value added in the agricultural sector
YD	=Gross domestic product
YDT	=Gross domestic product adjusted for terms of trade effect
YF	=Net factor income payments abroad
$YF\$*B$	=Net factor income payments abroad (from IMFBOP)
YMF	=Value added in the manu-

	facturing sector
YN	=Gross national product
YNA	=Value added in the non-agricultural sector
$YNAC$	=Capacity output in the non-agricultural sector
YNT	=Gross national product adjusted for terms of trade effect

In the following the countries models are given in the alphabertical order:

1. Bangladesh
2. Hong Kong
3. India
4. Indonesia
5. Jordan
6. Korea, Republic of
7. Lebanon
8. Malaysia
9. Pakistan
10. Philippines
11. Singapore
12. Sri Lanka
13. Syria
14. Taiwan Province
15. Thailand

Model of Bangladesh

Base Period: 1961-1972

I. Production

Eq.
No.

$$1a. \quad YD = 0.2600 C.IF_{-1}^{1/2} + 0.4553 M \\ (6.9466) \quad (1.2232) \\ - 4860.5214 DUW \\ (4.6607) \\ + 21783.4812 \\ (21.9893)$$

R² S.E. Y72 d
[0.90; 802.4; 27654.3; 2.69]

Eq.
No.

$$1b. \quad YD=0.2896 C.IF_{-1,2} \quad [0.90; 824.2; 27654.3; 2.36]$$

$$\quad (9.8789)$$

$$\quad -5670.5087 DUW \quad (6.8522)$$

$$\quad +22823.3480 \quad (43.6859)$$

II. *Consumption*

$$2. \quad CP=0.6155 YNT+5228.3240 \quad [0.92; 500.3; 23209.0; 1.89]$$

$$\quad (11.0105) \quad (3.4044)$$

$$3. \quad CG=0.3464 YD+1046.7717 DUW$$

$$\quad (11.2327) \quad (5.1370)$$

$$\quad -6483.9890 \quad (7.6657)$$

$$\quad [0.93; 262.4; 3995.2; 2.07]$$

III. *Investment*

$$4. \quad IF=0.1063 YDT+0.4361 M$$

$$\quad (2.5109) \quad (3.3687)$$

$$\quad -1012.8544 DUW \quad (4.7639)$$

$$\quad -1293.1718 \quad (1.4219)$$

$$\quad [0.90; 258.8; 2563.8; 1.96]$$

IV. *Exports*

$$5a. \quad X\$=0.3292 XW\$ \quad [0.60; 37.6; 438.1; 2.56]$$

$$\quad (1.4082)$$

$$\quad -170.1951 \left(\frac{PX\$}{PW\$} \right) \quad (1.5829)$$

$$\quad -158.1373 DUW+603.2099 \quad (3.7855) \quad (5.3585)$$

$$5b. \quad X\$=0.2818 XW\$-149.7473 DUW$$

$$\quad (1.1250) \quad (3.3448)$$

$$\quad +445.2967 \quad (7.9024)$$

$$\quad [0.53; 40.6; 438.1; 2.43]$$

$$6a. \quad XG\$=1.2619 X\$-158.8196$$

$$\quad (1961-69)(5.0418) \quad (1.2379)$$

Eq.
No.

$$[0.75; 26.4; 572.7; 0.72]$$

$$(1969)$$

$$6b. \quad XG\$=0.9513 X\$$$

$$(1961-769)$$

V. *Imports*

$$7a. \quad M\$=0.1629 YD\$$$

$$(4.5484)$$

$$\quad -495.5331 \left(\frac{PM\$ \cdot E}{P} \right) \quad (2.9887)$$

$$\quad +0.3347 \left(\frac{R\$^*}{PM\$} \right) \quad (1.2012)$$

$$\quad -451.3895 DUM+187.3368 \quad (6.4776) \quad (0.5307)$$

$$\quad [0.92; 51.0; 882.0; 1.35]$$

$$7b. \quad M\$=0.2200 YD\$+0.3645 \left(\frac{R\$^*}{PM\$} \right)$$

$$(5.1481) \quad (0.9274)$$

$$\quad -363.9907 DUM-656.7092 \quad (4.0777) \quad (2.1971)$$

$$\quad [0.85; 72.0; 882.0; 1.35]$$

$$7c. \quad M\$=0.2078 YD\$-407.2882 DUM$$

$$(5.1512) \quad (5.3954)$$

$$\quad -484.6772 \quad (2.0842)$$

$$\quad [0.85; 71.5; 882.0; 1.59]$$

$$8. \quad MG\$=0.8888 M\$-1.5922$$

$$(1961-69) (15.3186) \quad (0.0400)$$

$$\quad [0.96; 20.7; 767.3; 3.04]$$

$$(1969)$$

VI. *Price*

$$9. \quad P=0.5019 I.YD+0.3335 \left(\frac{L}{I.YD} \right)$$

$$(2.4054) \quad (4.4166)$$

$$\quad +0.1670 DUW+0.1851 \quad (1.8353) \quad (1.1497)$$

$$\quad [0.96; 0.05; 1.55; 2.01]$$

VII. *Other equations and identities*

$$10. \quad YDT=YD+X^* \left(\frac{1}{PM\$ \cdot E} \right)$$

$$\quad - \frac{1}{PX\$ \cdot E}$$

Eq.
No.

11. $YNT = YDT - YF$
 12. $IS = YD - CP - CG - IF$
 $\quad - X\$ \cdot ER70 + M\$ \cdot ER70$
 13. $R\$^* = 0.25a(M\$ \cdot PM\$)_{-1}$
 $\quad + (1-a)R\$^*_{-1}$

Exogenous variables:

$PW\$, XW\$, PX\$, PM\$, DUW,$
 $DUM, YF, E, ER70, L, a.$

Model of Hong Kong

Base Period: 1961-1972

I. Production

Eq.
No.

1. $YD = 0.2920 C.IF_{-1} + 8015.3343$
 $\quad (25.5195) \quad (29.0148)$
 $R^2 \quad S.E. \quad Y72 \quad d$
 $[0.98; 462.1; 20018.8; 1.60]$

II. Consumption

2. $\left(\frac{CP}{N}\right) = 0.7899\left(\frac{YNT}{N}\right) + 230.5391$
 $\quad (20.0749) \quad (1.1570)$
 $[0.97; 98.2; 17159.4; 2.95]$
 3. $CG = 0.0716 YD - 8.5608$
 $\quad (19.6952) \quad (0.1614)$
 $[0.97; 43.2; 1405.5; 1.72]$

III. Investment

4. $IF = 0.1120 YDT_{-1} + 0.4703 IF_{-1}$
 $\quad (2.1868) \quad (1.6295)$
 $\quad + 458.4336$
 $\quad (1.0155)$
 $[0.87; 258.1; 4755.2; 1.43]$

IV. Exports

- 5a. $XG\$ = 11.0109 XW\$$
 $\quad (33.2901)$
 $\quad - 1684.7347\left(\frac{PX\$}{PW\$}\right)$
 $\quad (2.3994)$
 $\quad + 737.5547$
 $\quad (1.1631)$

Eq.
No.

- [0.99; 56.2; 2876.3; 1.38]
 5b. $L.XG\$ = 1.5225 L.XW\$ - 0.9133$
 $\quad (28.4169) \quad (3.1273)$
 $[0.99; 0.05; 8.0; 0.68]$
 6. $XS\$^* = 0.0904 XG\$^* + 125.6621$
 $\quad (7.1672) \quad (5.2930)$
 $[0.82; 37.5; 440.8; 1.21]$

V. Imports

7. $M_{0+1}\$ = 0.1753 CP\$$
 $\quad (10.2176)$
 $\quad - 182.9155\left(\frac{PM_{0+1}\$ \cdot S \cdot E}{P}\right)$
 $\quad (1.4477)$
 $\quad + 300.3826$
 $\quad (1.8013)$
 $[0.98; 14.2; 625.1; 1.37]$
 8. $M_{2+4}\$ = 0.0588 YD\$ + 52.1540$
 $\quad (7.7062) \quad (2.8364)$
 $[0.84; 15.0; 219.3; 2.47]$
 9. $M_3\$ = 0.0328 YD\$ - 13.2910$
 $\quad (20.7550) \quad (3.4906)$
 $[0.98; 3.1; 88.6; 2.24]$
 10. $M_{5-9}\$ = 0.9097 YD\$$
 $\quad (12.8170)$
 $\quad - 864.0126\left(\frac{PM_{5-9}\$ \cdot O \cdot E}{P}\right)$
 $\quad (1.1964)$
 $\quad + 145.0204$
 $\quad (0.1686)$
 $[0.97; 94.7; 2385.5; 1.51]$
 11a. $MG\$ = 1.0072 M_{0-9}\$ + 23.5062$
 $\quad (62.3414) \quad (0.6550)$
 $[0.99; 39.6; 3393.7; 1.64]$
 11b. $L.MG = 1.3371 L.YD - 3.3261$
 $\quad (18.0434) \quad (4.7077)$
 $[0.97; 0.1; 9.9; 1.92]$
 12. $MS\$^* = 0.1419 MG\$^* - 35.4469$
 $\quad (98.0009) \quad (0.8908)$
 $[0.85; 53.3; 450.4; 0.91]$

VI. Prices

13. $P = 0.1501 I.YD + M + 0.9357 P_{-1}$
 $\quad (1.4462) \quad (4.2442)$

<p>Eq. No.</p> <p style="text-align: center;">-0.0192 (0.1615)</p> <p style="text-align: center;">[0.96; 0.03; 1.18; 1.64]</p> <p>14. $PM\\$ = 0.9175 PM_{0-9}\\$S + 0.0665$ (19.3504) (1.4664)</p> <p style="text-align: center;">[0.97; 0.01; 1.14; 2.43]</p> <p>15. $PX\\$ = 0.6949 PX_{0-9}\\S (1965-72) (2.0413)</p> <p style="text-align: center;">+1.3611 $PX\\$_{-1}$ -0.9529 (7.0642) (3.6786)</p> <p style="text-align: center;">[0.94; 0.03; 1.20; 2.65]</p> <p>VII. <i>Other equations and identities</i></p> <p>16. $L.-YF\\$^* = 0.0926 TIME + 0.8693$ (4.0822) (2.1489)</p> <p style="text-align: center;">[0.59; 0.27; 2.49; 1.71]</p> <p>17. $YDT = YD$ + $X^* \left(\frac{1}{PM\\$ \cdot E} - \frac{1}{PX\\$ \cdot E} \right)$</p> <p>18. $YNT = YDT - \frac{YF\\$^* \cdot ER}{PM\\$ \cdot E}$</p> <p>19. $M_{0-9}\\$ = M_{0+1}\\$ + M_{2+4}\\$ + M_3\\$ + $M_{5-9}\\$</p> <p><i>Exogenous variables:</i> $XW\\$, PW\\$, E, ER, PM_{5-9}\\$O,$ $PM_{0-9}\\$S, PX_{0-9}\\$S, TIME.$</p> <p style="text-align: center;">Model of India Base Period: 1955-1973</p> <p>I. <i>Production</i></p> <p>Eq. No.</p> <p>1. $L.YA = 0.0213 TIME - 0.0737 DUA$ (12.2027) (3.8117)</p> <p style="text-align: center;">+11.5876 (409.7617)</p> <p style="text-align: center;">R² S.E. Y73 d [0.90; 0.04; 12.1; 0.91]</p> <p>2a. $YNAC = 0.1684 C.IF_{-1/2}$ (2615.8086)</p>	<p>Eq. No.</p> <p style="text-align: center;">+96736.1195 (3308.4758)</p> <p style="text-align: center;">[; ; 241565.9;]</p> <p>2b. $YNA = 0.1490 C.IF_{-1/2}$ (36.4374)</p> <p style="text-align: center;">+1.8133 MG +62856.5740 (5.5191) (12.2883)</p> <p style="text-align: center;">[0.99; 4028.8; 213270.0; 1.32]</p> <p>3. $UC = -0.00001188 C.IF_{-1/2}$ (4.1232)</p> <p style="text-align: center;">+0.000111 YA_{-1} (2.8463)</p> <p style="text-align: center;">+0.00036 MG +0.8185 UC_{-1} (2.0772) (6.2482)</p> <p style="text-align: center;">-0.4682 (0.0428)</p> <p style="text-align: center;">[0.91; 1.3; 88.3; 1.68]</p> <p>4a. $YD = 1.0883(YA + YNA)$ (122.9186)</p> <p style="text-align: center;">-1939.1945 (0.7300)</p> <p style="text-align: center;">[0.99; 2228.2; 421809.1; 1.53]</p> <p>4b. $YD = 0.2436 C.IF_{-1/2}$ (22.6333)</p> <p style="text-align: center;">+226752.0695 (46.3940)</p> <p style="text-align: center;">[0.97; 11912.0; 421809.1; 0.91]</p> <p>5. $L.YMF = 0.9290 L.YNA - 0.4234$ (54.4594) (2.0893)</p> <p style="text-align: center;">[0.99; 0.02; 10.59; 0.55]</p> <p>II. <i>Consumption</i></p> <p>6. $\frac{CP}{N} = 0.8129 \left(\frac{YNT - TX}{N} \right)$ (15.5414)</p> <p>1955-72</p> <p style="text-align: center;">+59.2205 $\left(\frac{YA}{YNA} \right) - 28.2734$ (5.3846) (0.7036)</p> <p style="text-align: center;">[0.95; 5.7; 522.5; 1.21]</p> <p>7. $CG = 0.8013 TX - 444.3575$ (30.0142) (0.4279)</p> <p style="text-align: center;">[0.98; 1541.2; 49932.4; 0.85]</p>
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III. *Investment*

Eq.
No.

$$8. IF = 0.2587 YDT_{-1} + 0.5625 M_{5-9} \\ (1957-73) (17.0251) \quad (2.1100) \\ -41905.8904 \\ (5.3445) \\ [0.96; 3009.5; 74382.1; 1.42]$$

IV. *Exports*

$$9. X_{0+1}\$ = 7.3644 XW_{0+1}\$ \\ (1957-73) (4.1341) \\ -336.3323 \left(\frac{PX_{0+1}\$}{PW_{0+1}\$} \right) \\ (2.8098) \\ +670.2931 \\ (4.3305) \\ [0.71; 49.4; 792.2; 0.60]$$

$$10. X_{2+4}\$ = 5.2376 XW_{2+4}\$ \\ (1957-73) (3.8110) \\ -217.2227 \left(\frac{PX_{2+4}\$}{PW_{2+4}\$} \right) \\ (3.1673) \\ +380.5067 \\ (3.6830) \\ [0.89; 18.2; 395.7; 2.44]$$

$$11. X_3\$ = 0.0145 X_{0-9}\$ \\ (1957-73) \\ [\quad ; \quad ; 8.8; \quad]$$

$$12. X_{5-9}\$ = 0.0928 YMF\$ \\ (1957-73) (7.8367) \\ -733.4074 \left(\frac{PXD_{5-9}\$}{PX_{5-9}\$} \right) \\ (4.5636) \\ +1075.0737 \\ (6.8219) \\ [0.80; 60.3; 994.4; 1.63]$$

$$13a. XG\$ = 1.0556 X_{0-9}\$ - 79.9505 \\ (1957-73) (13.8651) \quad (0.5971) \\ [0.92; 74.8; 2225.4; 1.84]$$

$$13b. XG\$ = 1.1463 XW\$ \\ (1.7068) \\ -936.9223 \left(\frac{PX\$}{PW\$} \right) \\ (2.7621) \\ +0.0969 YMF\$ + 1899.5054 \\ (2.4444) \quad (6.0006)$$

Eq.
No.

$$[0.94; 63.4; 2225.4; 2.33]$$

$$13c. LXG\$ = 0.3432 LXW\$ + 5.6348 \\ (12.0222) \quad (37.3170) \\ [0.89; 0.05; 7.7; 1.55]$$

$$14. XG\$*B = 0.8969 XG\$* + 151.3241 \\ (1955-72) (15.1849) \quad (1.5508) \\ [0.93; 78.9; 2391.0; 2.24] \\ (1972)$$

$$15. X\$ = 0.7933 XG\$ + 701.6851 \\ (11.6329) \quad (5.8812) \\ [0.88; 77.7; 2319.0; 1.50]$$

$$16. X\$*B = 1.0907 XG\$*B + 157.8469 \\ (1955-72) (27.3623) \quad (2.4262) \\ [0.98; 49.4; 2731.0; 0.47] \\ (1972)$$

V. *Imports*

$$17a. M_{0+1}\$ = -0.2413 YA\$_{-1/2} \\ (1957-73) (4.7862) \\ +0.1112 CP\$ \\ (4.6720) \\ -459.8649 \left(\frac{PM_{0+1}\$.E}{P} \right) \\ (2.7819) \\ +1946.6673 \\ (5.3983) \\ [0.63; 144.4; 301.9; 1.14]$$

$$17b. M_{0+1}\$ = -0.2390 YA\$_{-1/2} \\ (1957-73) (3.8954) \\ +0.1035 CP\$ + 1667.8858 \\ (3.5966) \quad (3.9559) \\ [0.45; 175.8; 301.9; 0.81]$$

$$18. M_{2+4}\$ = 0.1084 M_{0-9}\$ \\ (1957-73) \\ [\quad ; \quad ; 123.1; \quad]$$

$$19. M_3\$ = 0.0023 YD\$ \\ (1957-73) (1.2327) \\ +0.1853 \left(\frac{R\$*E}{PM} \right)_{-1} - 66.2023 \\ (3.2625) \quad (0.7766) \\ [0.45; 58.2; 427.5; 1.92]$$

$$20a. M_{5-9}\$ = 0.0167 YD\$ \\ (1957-73) (1.6467)$$

Eq.
No.

$$-1454.4286 \left(\frac{PM_{5-9} \$ O \cdot E}{P} \right) \\ (1.9806) \\ +0.5647 \left(\frac{RS^* \cdot E}{PM} \right)_{-1, 2} \\ (1.3874) \\ -734.9097 DUM \\ (3.0436) \\ +2036.9168 \\ (2.9166)$$

[0.66; 159.8; 1141.0; 1.99]

20b. $M_{5-9} \$ = 0.0125 YD \$$
(1957-73) (1.3561)

$$-626.9788 DUM \\ (4.0430) \\ +1278.3634 \\ (3.4616)$$

[0.61; 170.7; 1141.0; 1.80]

21a. $MG \$ = 0.5631 M_{0-9} \$ + 1043.7228$
(1965-73) (4.7595) (3.4217)

[0.73; 168.3; 2124.5; 1.71]

21b. $L.MG = 0.3544 L.YD + 5.2660$
(1957-73) (1.8447) (2.1601)

[0.13; 0.1; 9.7; 0.64]

22a. $MG \$^* FB = 0.6722 MG \$^* + 570.6291$
(1955-72) (7.3419) (2.6307)

[0.76; 161.4; 2306.0; 1.18]
(1972)

22b. $MG \$^* FB = 0.8999 MG \*
(1965-72)

23a. $M \$ = 0.6546 MG \$ + 1111.9287$
(7.0187) (5.2101)

[0.73; 171.3; 2660.5; 1.43]

23b. $M \$ = 1.1128 MG \$$
(1965-73)

24. $M \$^* B = 1.2156 MG \$^* FB - 8.7707$
(1955-72) (27.1918) (0.0907)

[0.98; 60.3; 2860.0; 0.31]
(1972)

VI. Prices

25. $PA = -0.4913 \left(\frac{YA_{-1}}{YNA} \right)$
(4.8731)

Eq.
No.

$$+0.9135 \left(\frac{L}{I.YD} \right) + 0.5314 \\ (12.1701) (3.4752)$$

[0.98; 0.05; 1.54; 1.29]

26. $PNA = 0.1177 I.YD + M$
(0.8638)

$$+0.4138 \left(\frac{L}{I.YD} \right) \\ (2.9591)$$

$$+0.2768 PM \\ (2.5200)$$

$$+0.1447 \\ (2.1548)$$

[0.96; 0.03; 1.22; 0.89]

27. $P = 0.5199 PA + 0.4081 PNA$
(12.7667) (5.7685)

$$+0.0453 \\ (1.6032)$$

[0.99; 0.02; 1.30; 1.34]

VII. Other equations and identities

28. $YF \$ B = 0.0204 C.TG \$^*_{-1}$
(1955-72) (9.5003)

$$+186.1136 \left(\frac{PX}{E} \right) - 145.1465 \\ (1.1350) (0.9961)$$

[0.92; 33.8; 309.0; 0.43]
(1972)

29. $YF \$^* = 1.1521 YF \$^* B + 35.2025$
(1955-72) (11.7645) (1.7110)

[0.89; 47.7; 476.4; 2.20]

30a. $R \$^* = 0.5584 F \$^* - 0.5409 TG \*
(1957-72) (3.3388) (4.5318)

$$+0.8587 R \$^*_{-1} + 122.1371 \\ (5.7415) (0.5937)$$

[0.79; 103.3; 1142.0; 2.54]

30b. $R \$^* = 0.25 \alpha \cdot M \$^* B_{-1} + (1 - \alpha) R \$^*_{-1}$

31. $TX = 0.2064 YD - 29165.0419$
(20.2449) (3309.8831)

[0.96; 2794.3; 57702.5; 1.46]

32. $YDT = YD + X^* \left(\frac{1}{PM} - \frac{1}{PX} \right) \\ + \frac{TFP \$^* B \cdot ER}{PM}$

Eq.
No.

$$33. YNT = YDT - \left(\frac{YF\$ \cdot ER}{PM} \right)$$

$$34. X_{0-9}\$ = X_{0+1}\$ + X_{2+4}\$ + X_3\$ \\ + X_{5-9}\$$$

$$35. M_{0-9}\$ = M_{0+1}\$ + M_{2+4}\$ + M_3\$ \\ + M_{5-9}\$$$

$$36. TG\$ = M\$ \cdot B + YF\$ \cdot B - X\$ \cdot B$$

$$37. YNA = \left(\frac{YNAC \cdot UC}{100} \right)$$

Exogenous variables:

TIME, $XW_{0+1}\$$, $XW_{2+4}\$$, $XW_{5-9}\$$,
 $PW_{0+1}\$$, $PW_{2+4}\$$, $PXD_{5-9}\$$, *E*, *ER*,
 $TFP\$ \cdot B$, *DUA*, *DUM*, *F*\$, *PX*,
 PM , $PX_{0+1}\$$, $PX_{2+4}\$$, $PX_{5-9}\$$,
 $PM_{0+1}\$$, $PM_{5-9}\$O$, *L*, *a*.

Model of Indonesia

Base Period: 1961-1973

I. Production

Eq.
No.

$$1. L. YA = 0.0260 TIME + 13.7253 \\ (13.8256) \quad (397.2688)$$

R² S.E. Y73 d
[0.94; 0.03; 14.4; 1.47]

$$2. YNA = 0.2257 C.IF_{-1/2} + 0.7914 MD \\ (8.3868) \quad (3.9996)$$

+790794.9028
(16.4000)

[0.97; 72615.1; 2374539.0; 0.91]

$$3a. YD = 1.0500 (YA + YNA) \\ (81.7247)$$

-172690.2678
(4.4165)

[0.99; 24729.9; 4213579.0; 2.13]

$$3b. YD = 0.4537 C.IF_{-1/2} \\ (15.1506)$$

+2055236.4003
(29.1231)

[0.95; 130418.6; 4213579.0; 0.47]

II. Consumption

Eq.
No.

$$4. CP = 0.5443 \left(\frac{YNT}{N} \right) + 7950.2382 \\ N (11.3428) \quad (6.1598)$$

[0.91; 470.9; 25944.0; 1.35]

$$5. CG = 0.0770 YD + 25130.7404 \\ (6.9976) \quad (0.7550)$$

[0.80; 22252.0; 345433.0; 2.58]

III. Investment

$$6. IF = 0.2281 YDT_{-1} + 0.3898 MG \\ (5.1109) \quad (3.1483)$$

-423861.9577
(4.6728)

[0.95; 36758.7; 733644.0; 1.78]

IV. Exports

$$7a. XG\$ = 3.1016 XW\$ \\ (1961-72) \quad (3.9821)$$

-730.2137 $\left(\frac{PX\$}{PW\$} \right)$
(2.3720)

+958.6344
(2.5239)

[0.70; 173.6; 18800.0; 0.97]
(1972)

$$7b. XGS = 3.5800 XW\$ + 178.8759 \\ (1961-72) \quad (3.9348) \quad (0.7887)$$

[0.57; 209.9; 1800.0; 1.67]
(1972)

$$8a. XG\$ \cdot B = 0.7544 XG\$ + 236.5444 \\ (15.6794) \quad (3.8713)$$

[0.95; 120.1; 2532.0; 0.79]

$$8b. XG\$ \cdot B = 0.9936 XG\$ + 35.2308 \\ (13.1604) \quad (0.4952)$$

[0.94; 83.9; 1757.0; 0.68]
(1972)

$$9. X\$ = 0.7397 XG\$ + 205.7158 \\ (10.8231) \quad (2.1787)$$

[0.91; 163.8; 2582.7; 1.30]

$$10. X\$ \cdot B = 1.0141 XG\$ \cdot B + 14.6816 \\ (124.6338) \quad (1.5483)$$

[0.99; 15.7; 2592.0; 0.66]

V. Imports

- Eq.
No.
- 11a. $MG\$ = 0.919 YD\$$
(3.2091)
 $+ 1.7962 \left(\frac{RS\$}{PM\$} \right)_{-1,2}$
(7.3529)
 $- 70.0110$
(0.3371)
[0.95; 103.1; 2278.7; 2.82]
- 11b. $L.MG = 1.7661 L.YD - 13.5895$
(4.9872) (2.5772)
[0.67; 0.2; 13.6; 0.99]
12. $MG\$ \cdot FB = 1.1018 MG\$ + 6.3225$
(14.2163) (0.0779)
[0.94; 137.2; 2725.0; 1.81]
13. $M\$ = 1.2178 MG\$ + 117.0218$
(16.3872) (1.4432)
[0.96; 121.9; 2854.4; 0.71]
14. $M\$ \cdot B = 1.0373 MG\$ \cdot FB + 207.7561$
(25.5910) (4.3946)
[0.98; 81.2; 2941.0; 1.08]

VI. Price

15. $P = 0.1295 \left(\frac{L}{I.YD} \right)$
(3.1863)
 $+ 0.6775 (PMS \cdot E)$
(14.1137)
 $+ 0.2332 P_{-1} - 0.0053$
(3.0707) (0.4859)
[0.99; 0.03; 1.37; 1.984]

VII. Miscellaneous equations and identities

16. $YF\$ \cdot B = 0.0434 C.TG\$_{-1}$
(3.0903)
 $+ 185.7618 PX\$ - 115.7142$
(1.9104) (1.3837)
[0.55; 52.3; 196.0; 2.23]
17. $YF\$ = 0.8969 YF\$ \cdot B + 14.3072$
(26.6478) (2.9270)
[0.98; 9.1; 200.0; 2.81]

Eq.
No.

18a. $R\$ = 0.8534 F\$ - 0.6360 TG\$$
(1963-72) (5.3251) (2.0503)
 $+ 0.9388 R\$_{-1} - 39.2717$
(2.0575) (0.6519)
[0.90; 52.8; 807.0; 2.14]

18b. $R\$ = 0.25 a.M\$ \cdot B_{-1} + (1-a)R\$_{-1}$

19. $YDT = YD + X \left(\frac{1}{PM\$ \cdot E} - \frac{1}{PX\$ \cdot E} \right) + \frac{TF\$ \cdot B \cdot ER}{PM\$ \cdot E}$

20. $YNT = YDT - \frac{YF\$ \cdot ER}{PM\$ \cdot E}$

21. $TG\$ = M\$ \cdot B + YF\$ \cdot B - X\$ \cdot B$

Exogenous variables:

TIME, XW\$, PW\$, PX\$, PM\$,
E, ER, F\$, TFP\$·B, L, a.

Model of Jordan

Base Period: 1955-1972

I. Production

Eq.
No.

1. $YD = 0.2944 C.IF_{-1,2} + 133.6369$
(1970-72)(5.8658) (12.4285)
R² S.E. Y72 d
[0.74; 20.0; 221.1; 0.61]

II. Consumption

2. $CP = 0.6640 \left(\frac{YNT}{N} \right) + 9.3888$
N (19.5829) (3.0280)
[0.96; 3.2; 66.7; 1.34]

3. $CG = 0.1805 YD + 14.4139 DUW$
(7.3240) (4.8237)
 $+ 8.9697$
(2.6722)
[0.95; 3.9; 64.4; 2.18]

III. Investment

4. $IF = 0.1211 YDT + 0.1454 MG$
(4.2262) (1.3802)

Eq.
No.

$$-3.3543$$

$$(1.3253)$$

$$[0.91; 3.0; 35.0; 2.21]$$

IV. *Exports*

$$5a. \quad XG\$ = 0.1035 XW\$ + 0.4611 XG\$_{-1}$$

$$(3.1492) \quad (1.8709)$$

$$-3.8503 DUW - 6.0973$$

$$(1.1569) \quad (1.8955)$$

$$[0.92; 3.3; 48.8; 1.69]$$

$$5b. \quad L.XG\$ = 1.2866 L.XW\$ - 3.7153$$

$$(12.4437) \quad (7.8491)$$

$$[0.90; 0.2; 3.0; 0.93]$$

$$6. \quad XS\$ = 4.6135 TIME$$

$$(4.6552)$$

$$-19.9813 DUW - 22.2563$$

$$(1.8139) \quad (1.8610)$$

$$[0.65; 12.6; 97.1; 2.47]$$

$$7. \quad XG\$ \cdot B = 0.9922 XH\$ + 0.2232$$

$$(83.1742) \quad (0.7055)$$

$$[0.99; 0.6; 47.7; 1.13]$$

$$8. \quad XS \cdot B = 3.3118 XG \cdot B$$

$$(7.3701)$$

$$-21.2741 DUW + 0.6113$$

$$(1.8930) \quad (0.0736)$$

$$[0.87; 12.2; 133.2; 1.10]$$

V. *Imports*

$$9a. \quad MG\$ = 0.2495 YD\$$$

$$(6.9957)$$

$$-155.2115 \left(\frac{PM\$ \cdot E}{P} \right)$$

$$(2.6098)$$

$$-12.9837 DUW + 212.5606$$

$$(1.0551) \quad (3.0519)$$

$$[0.88; 15.7; 234.9; 1.69]$$

$$9b. \quad MG\$ = 0.2519 YD\$ + 37.7717$$

$$(9.5101) \quad (3.0187)$$

$$[0.84; 18.0; 234.9; 1.42]$$

$$10. \quad M\$ = 1.2022 MG\$ + 43.7681 DUW$$

$$(8.0557) \quad (3.1612)$$

$$-13.5639$$

$$(0.6734)$$

Eq.
No.

$$[0.92; 20.5; 295.4; 1.67]$$

$$11. \quad MG\$ \cdot FB = 0.9090 MG\$ - 4.5484$$

$$(53.8038) \quad (1.7488)$$

$$[0.99; 3.5; 237.2; 2.98]$$

$$12. \quad M\$ \cdot B = 1.2983 MG\$ \cdot FB$$

$$(10.3579)$$

$$+ 40.1189 DUW - 3.9121$$

$$(3.3474) \quad (0.2778)$$

$$[0.95; 16.9; 330.2; 1.80]$$

VI. *Prices*

$$13. \quad P = 0.1774 \left(\frac{L}{I \cdot YD} \right) + 0.7272 P_{-1}$$

$$(4.0242) \quad (5.2640)$$

$$+ 0.1470$$

$$(1.4473)$$

$$[0.90; 0.03; 1.13; 2.16]$$

$$14. \quad PM\$ = 0.5524 PM_{0-9}\$S$$

$$(1962-72) \quad (7.0569)$$

$$+ 0.4748 PM\$_{-1} - 0.0113$$

$$(2.9912) \quad (0.1337)$$

$$[0.99; 0.01; 1.14; 1.76]$$

VII. *Other equations and identities*

$$15. \quad YF\$ \cdot B = -0.5249 TIME$$

$$(2.8928)$$

$$-5.9257 DUW + 3.2699$$

$$(2.9672) \quad (1.4933)$$

$$[0.84; 2.3; -9.3; 1.27]$$

$$16. \quad YF\$ = 1.6116 YF\$ \cdot B - 15.4189$$

$$(4.3155) \quad (4.8669)$$

$$[0.51; 9.0; -38.9; 0.67]$$

$$17. \quad YDT = YD + X \cdot \left(\frac{1}{PM\$ \cdot E} \right.$$

$$\left. - \frac{1}{PX\$ \cdot E} \right) + \frac{TF\$ \cdot B \cdot ER}{PM\$ \cdot E}$$

$$18. \quad YNT = YDT - \frac{YF\$ \cdot ER}{PM\$ \cdot E}$$

Exogenous variables:

TIME, N, XW\$, E, L, TF\$ \cdot B,
PM_{0-9}\\$, PX\$, DUW.

Model of the Republic of Koren

Base Period: 1955-1973

Eq.
No.

I. *Production*

Eq.
No.

$$1. \quad L.YA=0.0373 \text{ TIME} - 0.0513 \text{ DUA} \\ (24.0215) \quad (2.9051) \\ +12.7246 \\ (499.5364)$$

FR² S.E. Y73 d
[0.97; 0.04; 13.6; 1.45]

$$2. \quad YNA=0.3090 \text{ C.IF}_{-1,2} \\ (1960-73) (17.4932) \\ +0.7532M_{2-9} + 522578.7870 \\ (5.8422) \quad (34.8356) \\ [0.99; 25402.5; 2746479.0; 1.59]$$

$$3. \quad L.YMF=1.8798 \text{ L.YD} - 14.5124 \\ (79.4612) \quad (42.9707) \\ [0.99; 0.04; 13.8; 2.08]$$

$$4. \quad YD=0.4759 \text{ C.IF}_{-1,2} + 093666.7863 \\ (51.5483) \quad (41.3575) \\ [0.99; 65191.8; 3549429.0; 0.90]$$

II. *Consumption*

$$5. \quad \frac{CPF}{N} = 0.1481 \left(\frac{YNT-TX}{N} \right) \\ (3.7050) \\ +0.4561 \left(\frac{CPF}{N} \right)_{-1} + 5732.98 \\ (2.5108) \quad (2.4761) \\ [0.98; 577.6; 33355.0; 2.05]$$

$$6. \quad \frac{CPNF}{N} = 0.2378 \left(\frac{YNT-TX}{N} \right) \\ (2.5239) \\ +0.5572 \left(\frac{CNFP}{N} \right)_{-1} \\ (2.4914) \\ -2647.52 \\ (2.7246) \\ [0.98; 983.9; 37877.0; 1.95]$$

$$7. \quad CG=0.4422 \text{ TX} + 120389.63 \\ (24.8698) \quad (27.5952) \\ [90.7; 10605.6; 336600.0; 0.86]$$

III. *Investment*

$$8a. \quad IF=0.5698 \text{ YDT} - 0.5811 \text{ YDT}_{-1} \\ (1960-73)(5.7105) \quad (5.7380)$$

$$+0.3808M_{5-9} \\ (2.2025)$$

$$-157448.95 \left(\frac{PA}{PNA} \right) \\ (3.3362)$$

$$+0.6844 \text{ IF}_{-1} + 149628.38 \\ (7.9521) \quad (4.1551) \\ [0.99; 13889.2; 851890.0; 1.77]$$

$$8b. \quad IF=0.1911 \text{ YDT}_{-1} + 1.0486 M_{5-9} \\ (1960-73)(2.3215) \quad (3.7616)$$

$$+4009.4600 \text{ R} \cdot \text{P} \\ (1.6330)$$

$$-317682.9700 \left(\frac{PA}{PNA} \right) \\ (1.8266)$$

$$+52793.9700 \\ (0.6099)$$

$$[0.98; 35891.6; 851890.0; 1.44]$$

IV. *Exports*

$$9. \quad X_{0+1}\$ = 7.7098 \text{ XW}_{0+1}\$ \\ (1960-73) (3.9929) \\ -163.3670 \left(\frac{PX_{0+1}\$S}{PW_{0+1}\$} \right) \\ (1.2478)$$

$$-68.8226 \\ (1.1223)$$

$$[0.81; 16.7; 156.5; 1.6]$$

$$10. \quad X_{2+4}\$ = 6.2865 \text{ XW}_{2+4}\$ \\ (1960-73) (12.0054) \\ -158.1263 \left(\frac{PX_{2+4}\$S}{PW_{2+4}\$} \right) \\ (5.2800)$$

$$+49.4163 \\ (1.2118)$$

$$[0.97; 7.0; 164.5; 1.32]$$

$$11. \quad X_3\$ = 0.6600 \text{ XW}_3\$ - 9.0588 \\ (1960-73) (6.6567) \quad (3.9807)$$

$$[0.77; 2.6; 19.5; 0.43]$$

$$12. \quad L.X_{5-9}\$ = 2.0415 \text{ L.XW}_{5-9}\$ \\ (1965-73) (2.3361) \\ -0.6694 \text{ L.} \left(\frac{PX_{5-9}\$S}{PXD_{5-9}\$} \right) \\ (1.5636)$$

$$+0.3756 \text{ L.X}_{5-9}\$_{-1} - 6.7151 \\ (1.5604) \quad (2.1030)$$

Eq. No.		Eq. No.	
	[0.99; 0.1; 7.8; 1.58]		-19.3730 (0.3776)
13a.	$XG\$ = 1.0107 X_{0-9}\$ - 19.9429$ (173.8805) (4.2048)		[0.97; 25.4; 523.1; 1.73]
	[0.99; 17.1; 2703.5; 1.17]	18b.	$M_{2+4}\$ = 0.0275 YDS$ (1961-73) (2.0527)
13b.	$XG\$ = 11.1765 XW\$ - 2351.8333$ (1965-73) (7.7573) (5.4833)		$+ 0.4078 \left(\frac{R\$^*}{PM\$} \right)_{-1}$ (2.7025)
	[0.88; 282.7; 2703.5; 0.74]		-63.3897 (1.4906)
13c.	$L.XG\$ = 3.7596 L.XW\$ - 14.7832$ (1965-73) (35.4392) (24.6616)		[0.96; 30.2; 523.1; 0.81]
	[0.99; 0.1; 7.9; 1.04]	19a.	$M_3\$ = 0.0114 YD\$$ (1961-73) (2.6671)
16.	$XG\$^*B = 1.0224 XG\$^* + 4.7109$ (233.2571) (1.1834)		$- 18.4434 \left(\frac{PM_3\$S \cdot E}{P} \right)$ (1.4418)
	[0.99; 14.8; 3271.0; 0.70]		$+ 0.1306 \left(\frac{R\$^*}{PM\$} \right)_{-1} - 11.8667$ (2.6672) (0.6015)
15.	$XS\$^* = 0.1121 XG\* (5.7181)		[0.97; 09.3; 171.8; 1.83]
	$+ 0.7424 XS\$^*_{-1} + 26.8364$ (6.9676) (2.0116)	19b.	$M_3\$ = 0.0099 YDS$ (1961-73) (3.0776)
	[0.97; 35.1; 741.3; 1.13]		$+ 0.1515 \left(\frac{R\$^*}{PM\$} \right)_{-1} - 33.0319$ (2.2600) (2.3807)
16.	$X\$B = 1.2487 XG\$^*B + 112.5792$ (50.0420) (4.8454)		[0.97; 9.8; 171.8; 1.88]
	[0.99; 86.2; 4080.0; 0.32]	20.	$M_{5-9}\$ = 0.1458 YDS$ (1961-73) (2.7899)
V. Imports			$+ 0.6718 \left(\frac{R\$^*}{PM\$} \right)_{-1}$ (1.1396)
17a.	$M_{0+1}\$ = 0.0285 CP\$$ (1961-73) (1.2772)		-404.7608 (2.4365)
	$- 169.5557 \left(\frac{PM_{0+1}\$S \cdot E}{P} \right)$ (4.5949)		[0.95; 117.8; 1767.2; 0.99]
	$+ 0.2964 \left(\frac{R\$}{PM\$} \right)_{-1}$ (1.9031)	21a.	$MG\$ = 1.1835 M_{0-9}\$ - 188.5917$ (23.5629) (2.5616)
	$+ 162.4973$ (2.0944)		[0.98; 152.5; 3375.2; 0.51]
	[0.94; 31.1; 279.0; 2.51]	21b.	$L.MG = 2.2552 L.YD - 14.2246$ (1960-73) (16.4985) (10.5834)
17b.	$M_{0+1}\$ = 0.0744 CP\$ - 193.4970$ (1961-73) (6.8622) (3.4948)		[0.95; 0.2; 9.3; 1.33]
	[0.79; 56.9; 279.0; 0.97]	22.	$MG\$FB = 0.9061 MG\$^* + 1.2582$ (267.2708) (0.2479)
18a.	$M_{2+4}\$ = 0.0353 YD\$$ (1961-73) (2.9924)		[0.99; 15.3; 3837.0; 2.17]
	$- 76.4416 \left(\frac{PM_{2+4}\$S \cdot E}{P} \right)$ (2.2544)	23.	$MS\$^* = 0.0316 MG\$^* + 7.9983$ (1965-73) (5.8907) (0.6980)
	$+ 0.3015 \left(\frac{R\$^*}{PM\$} \right)_{-1}$ (2.2224)		

- Eq. No. [0.81; 17.4; 150.1; 2.61]
24. $M\$*B = 1.1499 MG\$*FB + 7.2657$
(297.9065) (1.3869)
[0.99; 15.8; 4407.0; 1.21]
- VI. *Prices*
25. $PA = -0.4544 \left(\frac{YA_{-1}}{YNA} \right)$
(1960-73) (1.8722)
 $+ 0.9605 PA_{-1} + 0.3680$
(9.6197) (1.9558)
[0.99; 0.05; 1.59; 1.39]
26. $PNA = 0.0528 PA + 0.0989 (PM\$*E)$
(1.0136) (2.6853)
 $+ 0.9126 PNA_{-1} + 0.0143$
(12.2787) (1.7074)
[0.99; 0.02; 1.34; 2.24]
27. $P = 0.2914 PA + 0.7031 PNA - 0.0001$
(18.0488) (37.4488) (0.0409)
[0.99; 0.005; 1.40; 1.03]
- VII. *Other equations and identities*
28. $YF\$*B = 0.0327 C.TG\$_{-1}$
(1965-73) (6.6883)
 $+ 186.1366 PX\$ - 212.3808$
(1.3697) (1.5961)
[0.91; 19.6; 172.0; 0.97]
29. $YF\$* = 0.8569 YF\$*B - 68.2488$
(1965-73) (7.2694) (7.1682)
[0.87; 22.5; 93.0; 0.82]
- 30a. $R\$* = 1.1321 F\$* - 1.0976 TG\$*$
(1960-73) (8.2984) (10.2335)
 $+ 1.1129 R\$*_{-1} + 37.1524$
(14.0668) (2.2227)
[0.99; 28.8; 1094.4; 1.36]
- 30b. $R\$* = 0.25 (a \cdot M\$*B_{-1})$
 $+ (1-a)R\$*_{-1}$
31. $TX = 0.1731 YD - 94865.35$
(19.4563) (5.6420)
[0.95; 29987.7; 464710.0; 0.63]
32. $YD = YA + YNA$

- Eq. No.
33. $YDT = YD + X * \left(\frac{1}{PM\$*E} - \frac{1}{PX\$*E} \right) + \frac{TF\$*B \cdot ER}{PM\$*E}$
34. $YNT = YDT - \frac{YF\$* \cdot ER}{PM\$*E}$
35. $X_{0-9}\$ = X_{0+1}\$ + X_{2+4}\$ + X_3\$ + X_{5-9}\$$
36. $M_{0-9}\$ = M_{0+1}\$ + M_{2+4}\$ + M_3\$ + M_{5-9}\$$
37. $M_{2-9} = (M_{2+4}\$ + M_3\$ + M_{5-9}\$) \cdot ER70$
38. $IS = YD - CPF - CPNF - CG - IF - XG\$ \cdot ER70 - \frac{XS\$* \cdot ER}{PX\$*E} + MG\$ \cdot ER70 + \frac{MS\$* \cdot ER}{PM\$*E}$
39. $TG\$* = M\$*B + YF\$*B - X\B
- Exogenous variables:*
 $XW_{0+1}\$, XW_{2+4}\$, XW_3\$, XW_{5-9}\$, PW_{0+1}\$, PW_{2+4}\$, PXD_{5-9}\$, PX_{0+1}\$, PX_{2+4}\$, PX_{5-9}\$, PM_{0+1}\$, PM_{2+4}\$, PM_3\$, PX\$, PM\$, N, E, TF\$*B, F\$*, a.$

Model of Lebanon

Base Period: 1961-1973

I. Production

- Eq. No.
- 1a. $YD = 0.1016 C.IF_{-2,1} + 1.4768 MG$
(2.3592) (3.9038)
 $+ 1226.6206$
(2.9590)
R² S.E. Y73 d
[0.98; 139.7; 6209.3; 1.13]
- 1b. $YD = 0.2633 C.IF_{-2,1} + 2813.2547$
(14.8156) (22.8603)
[0.95; 211.6; 6209.3; 1.17]

II. Consumption

2. $\left(\frac{CP}{N} \right) = 0.9935 \left(\frac{YDT}{N} \right) - 347.6847$
(19.6569) (3.9894)

- Eq. No. [0.97; 26.5; 1685.9; 1.78]
3. $CG=0.1141 YD-75.9577$
 (8.3216) (1.2301)
 [0.85; 44.0; 566.7; 0.69]
- III. *Investment*
4. $IF=0.1444 YDT+0.1760 MG$
 (3.4632) (2.5024)
 $-133.9687 DUW+48.6044$
 (4.0737) (0.5919)
 [0.94; 34.0; 1178.5; 2.10]
- IV. *Exports*
- 5a. $XG\$=0.7759 XW\$+0.3656 XG\$_{-1}$
 (2.0396) (1.0175)
 -96.3052
 (1.8369)
 [0.97; 16.6; 307.8; 1.20]
- 5b. $L.XG\$=2.1890 L.XW\-7.2429
 (24.8291) (14.9483)
 [0.98; 0.1; 5.7; 1.52]
6. $XS\$*=13.3786 TIME+17.5616$
 (7.0941) (0.5605)
 [0.80; 25.4; 373.2; 1.37]
- V. *Imports*
- 7a. $MG\$=0.4354 YD\$$
 (16.5776)
 $-168.0120\left(\frac{PM\$ \cdot E}{P}\right)$
 (1.2917)
 $+114.5585$
 (0.9999)
 [0.97; 20.9; 727.6; 1.06]
- 7b. $L.MG=1.1556 L.YD-3.3658$
 (13.9238) (4.8420)
 [0.94; 0.1; 6.8; 0.88]
3. $M\$=1.2321 MG\-133.8284
 (46.1574) (9.2012)
 [0.99; 11.1; 748.6; 2.01]
- VI. *Prices*
9. $P=0.2635 I.YD+0.1994 (PMS \cdot E)$
 (2.2005) (1.0371)

- Eq. No. +0.5193
 (5.4001)
 [0.84; 0.03; 1.10; 1.39]
10. $PX\$=1.0043 PX_{0-9}\S
 (4.3910)
 $+1.8727 PX\$_{-1}-1.8108$
 (3.5541) (3.6814)
 [0.81; 0.08; 1.63; 1.06]
11. $PM\$=1.0945 PM_{0-9}\$S-0.0652$
 (16.1613) (0.9517)
 [0.96; 0.04; 1.63; 1.63]
- VII. *Identities*
12. $YDT=YD+X^*$
 $\left(\frac{1}{PM\$ \cdot E} - \frac{1}{PX\$ \cdot E}\right)$
13. $IX=YD-CP-CG-IF$
 $-XG\$ \cdot ER70$
 $-\left(\frac{XS\$*}{PX\$}\right)ER70+M\$ \cdot ER70$
- Exogeneous variables:*
 TIME, XW\$, PX₀₋₉\$\$S, PM₀₋₉\$\$S,
 N, E, ER, DUW

Model of Malayaia

Base Period: 1962-1973

I. *Production*

- Eq. No.
1. $L.YA=0.0559 TIME+6.8891$
 (16.8569) (110.3123)
 R² S.E. Y73 d
 [0.96; 0.04; 8.3; 1.14]
2. $YNA=0.2152 C.IF_{-1}r_2+4005.0367$
 (24.8941) (38.1561)
 [0.98; 179.4; 8733.8; 1.40]
- 3a. $YD=1.2421 Y-539.9085$
 (94.1723) (4.4094)
 [0.99; 85.0; 15299.0; 1.29]

- Eq. No. 3b. $YD=0.3838 C.IF_{-1/2}+6703.8371$
 (32.3661) (46.5556)
 [0.99; 246.2; 15299.0; 1.67]
- II. *Consumption*
4. $\frac{CP}{N}=0.3508\left(\frac{YNT-TX}{N}\right)$
 (3.7654)
 $+270.0777\left(\frac{YA}{YNA}\right)$
 (2.2467)
 $+0.6383\left(\frac{CP}{N}\right)_{-1}-174.3491$
 (3.1127) (1.4960)
 [0.91; 9.4; 6718.5; 1.63]
5. $CG=0.8415 TX+433.7156$
 (17.3723) (5.1589)
 [0.96; 91.6; 2607.; 0 1.12]
- III. *Investment*
6. $IF=0.2410 F.YNA+0.2979 M_{5-9}$
 (3.0398) (3.4716)
 $-632.7021\left(\frac{PA}{PNA}\right)$
 (3.5269)
 $+0.3118 IF_{-1}+1200.7129$
 (3.1278) (3.8336)
 [0.98; 44.2; 2387.0; 2.23]
- IV. *Exports*
7. $X_{0+1}\$=1.8622 XW_{0+1}\$$
 (4.0174)
 $-141.1597\left(\frac{PX_{0+1}\$}{PW_{0+1}\$}\right)$
 (5.4479)
 $+165.2899$
 (3.8201)
 [0.96; 4.5; 131.0; 1.76]
8. $X_{2+4}\$=51.2678 XW_{2+4}\-585.6619
 (16.4522) (6.6498)
 [0.96; 48.4; 1312.9; 1.51]
9. $X_3\$=1.2496 XW_3\$$
 (1.1676)
 $-68.2700\left(\frac{PX_3\$}{PW_3\$}\right)+136.9546$
 (2.0545) (2.5281)
 [0.51; 19.7; 97.7; 1.18]
- Eq. No. 10. $X_{5-9}\$=1.0046 XW_{5-9}\$$
 (11.1824)
 $-176.8382\left(\frac{PX_{5-9}\$}{PXD_{5-9}\$}\right)$
 (3.1349)
 $+409.5465$
 (6.8128)
 [0.93; 18.3; 550.8; 1.81]
- 11a. $XG\$=0.9954 X_{0-9}\$+19.8598$
 (52.1513) (0.7071)
 [0.99; 22.2; 2117.2; 1.82]
- 11b. $XG\$=4.3786 XW\$+300.3054$
 (20.6010) (5.1874)
 [0.97; 58.8; 2117.2; 1.78]
12. $XG\$*B=1.0157 XG\$*-34.7420$
 (197.2019) (4.2783)
 [0.99; 8.9; 2974.0; 0.86]
13. $X\$=1.0399 XG\$+34.9491$
 (41.6986) (0.9442)
 [0.99; 29.0; 2238.8; 1.53]
14. $X\$*B=1.0476 XG\$*B+43.0758$
 (100.5751) (2.6367)
 [0.99; 18.2; 3167.0; 0.63]
- V. *Imports*
- 15a. $\frac{M_{0+1}\$*}{CP\$*}.100=-0.0083 YA\$_{-1}$
 (1965-73) (3.6112)
 $+20.49870$
 (9.5846)
 [0.60; 1.0; 12.4; 1.25]
- 15b. $\frac{M_{0+1}\$*}{CP\$*}.100=-0.0272 YA\$_{-1/2}$
 (1965-73) (1.4098)
 $+0.0124 CP\$+10.8493$
 (1.0328) (1.2012)
 [0.58; 1.0; 12.4; 1.24]
16. $M_{2+4}\$=0.0295 YD\-15.2650
 (1965-73) (3.3860) (0.4536)
 [0.57; 16.1; 124.0; 1.74]
- 17a. $M_3\$=0.1043 M_{0-9}\$$
 [; ; 89.3;]

Eq. No.		Eq. No.	
17b.	$M_3\$ = 0.8596 M_3\$_{-1}$	27.	$PX\$ = 0.9792 PX_{0-9}\$S + 0.0109$ (22.4498) (0.2399) [0.98; 0.02; 1.39; 1.64]
18.	$M_{5-9}\$ = 0.1765 YD\$ + 100.1308$ (9.7480) (1.5385) [0.90; 47.4; 1029.3; 1.78]	28.	$PX_{0+1}\$ = 0.5349 PX_{0+1}\$S + 0.5370$ (1965-73) (5.0937) (4.8389) [0.76; 0.07; 1.42; 0.79]
19a.	$MG\$ = 0.9276 M_{0-9}\$ + 96.6406$ (19.2403) (1.6386) [0.97; 23.8; 1498.5; 1.12]	29.	$PX_3\$ = 0.7176 PX_3\$S + 0.2626$ (1965-73) (10.9282) (3.3906) [0.94; 0.05; 1.53; 1.28]
19b.	$L.MG = 0.4690 L.YD + 3.8751$ (7.3939) (6.5955) [0.83; 0.05; 8.4; 1.87]	30.	$PX_{5-9}\$ = 1.1039 PX_{5-9}\$S - 0.0712$ (24.3720) (1.6712) [0.98; 0+.02; 1.30; 1.03]
20.	$MG\$ \cdot FB = 0.9508 MG\$ + 12.8454$ (98.6546) (0.9838) [0.99; 12.7; 2287.0; 0.80]	31.	$PN\$ = 1.1258 PM_{0-9}\$S - 0.0981$ (24.2292) (2.0499) [0.98; 0.03; 1.60; 2.09]
21.	$MS\$* = 0.1606 MG\$* - 61.5721$ (4.8579) (1.3745) [0.67; 43.6; 305.4; 1.42]	VII. <i>Other equations and identities</i>	
22.	$M\$*B = 1.2445 MG\$*FB - 96.3413$ (87.2139) (5.1914) [0.99; 17.9; 2742.0; 0.40]	32.	$YF\$*B = 0.0152 C.TG\$*_1$ (1.7121) + 0.0800 $X\$*B - 27.3544$ (6.2653) (1.5824) [0.81; 18.0; 202.0; 1.65]
VI. <i>Prices</i>		33.	$YF\$* = 1.3341 YF\$*B - 16.0090$ (8.9863) (1.1303) [0.88; 20.2; 261.4; 1.17]
23.	$PA = -0.5585 \left(\frac{YA-1}{YNA} \right)$ (1.0796) + 1.0548 ($PX\$ \cdot E$) (5.2743) + 0.3739 $PA-1 - 0.1517$ (1.9258) (0.5122) [0.70; 0.05; 1.18; 1.57]	34.	$TX = 0.2355 YD - 885.6782$ (38.9141) (13.3024) [0.99; 48.4; 2692.9; 2.75]
24.	$PNA = 0.2790 I.YD + M$ (3.1308) + 0.2392 ($PM\$ \cdot E$) + 0.4549 (1.5818) (4.8757) [0.89; 0.03; 1.11; 2.77]	35.	$YNT = YD - \left(\frac{YF\$* \cdot ER}{PM\$ \cdot E} \right)$ + $X* \left(\frac{1}{PM \cdot E} - \frac{1}{PX\$ \cdot E} \right)$ + $\frac{TF\$B \cdot ER}{PM\$ \cdot E}$
25.	$P = 0.3129 PA + 0.6860 PNA$ (30.1003) (58.0366) + 0.0010 (0.0555) [0.99; 0.99; 0.003; 1.13; 0.51]	36.	$X_{0-9}\$ = X_{0+1}\$ + X_{2+4}\$ + X_3\$$ + $X_{5-9}\$$
26.	$PCP = 0.959 7P + 0.0418$ (4.6830) (0.2074) [0.66; 0.03; 1.13; 1.13]	37.	$M_{0-9} = M_{90+1}\$ + M_{2+4}S + M_3S$ + $M_{5-9}\$$
		38.	$TG\$* = M\$*B + YF\$*B - X\$*B$
			<i>Exogenous variables:</i> <i>TIME, TF\\$*B, E, ER, XW_{0+1}\\$,</i>

$$\begin{array}{l}
 XW_{2+4}\$, XW_3\$, XW_{5-9}\$, PW_{0+1}\$, \\
 PW_3\$, PXD_{5-9}\$, PX_{0-9}\$, \\
 PX_{0+1}\$, PX_3\$, PX_{5-9}\$, \\
 PM_{0-9}\$.
 \end{array}
 \begin{array}{l}
 \text{Eq.} \\
 \text{No.} \\
 -113.8685 \\
 (0.1744) \\
 [0.79; 899.3; 6793.6; 1.28]
 \end{array}$$

Model of Pakistan

Base Period: 1960-72

I. *Production*

Eq.
No.

$$\begin{array}{l}
 1. \quad L.YA = 0.0455 \text{ TIME} + 8.7412 \\
 \quad \quad (18.0334) \quad (198.9171) \\
 \quad \quad R^2 \quad S.E. \quad Y72 \quad d \\
 \quad \quad [0.96; 0.03; 9.75; 1.22] \\
 2. \quad YNA = 0.2175 C.IF_{-1,2} + 13159.1915 \\
 \quad \quad (29.1962) \quad (33.7638) \\
 \quad \quad [0.99; 687.3; 3226.6; 2.02] \\
 3a. \quad YD = 1.1542 Y - 1728.6890 \\
 \quad \quad (16.9162) \quad (0.6722) \\
 \quad \quad [0.96; 1949.8; 53147.6; 0.59] \\
 3b. \quad YD = 0.3567 C.IF_{-1,2} \\
 \quad \quad (15.9171) \\
 \quad \quad + 24528.5770 \\
 \quad \quad (20.9230) \\
 \quad \quad [0.95; 2067.3; 53147.6; 0.51]
 \end{array}$$

II. *Consumption*

$$\begin{array}{l}
 4. \quad \frac{CP}{N} = 1.0296 \left(\frac{YNT}{N} \right) \\
 \quad \quad (13.6332) \\
 \quad \quad + 339.4276 \left(\frac{YA}{YNA} \right) \\
 \quad \quad (2.7482) \\
 \quad \quad - 410.4064 \\
 \quad \quad (3.1639) \\
 \quad \quad [0.98; 12.2; 630.5; 2.31] \\
 5. \quad CG = 0.0904 YD + 783.1168 \\
 \quad \quad (7.1445) \quad (1.4788) \\
 \quad \quad [0.81; 425.2; 5450.0; 2.21]
 \end{array}$$

III. *Investment*

$$6. \quad IF = 0.0066 YDT_{-1} + 0.7524 M \\
 (1952-72) \quad (2.5470) \quad (4.6306)$$

IV. *Exports*

$$\begin{array}{l}
 7a. \quad X\$ = 2.4237 XW\$ \\
 \quad \quad (12.6727) \\
 \quad \quad - 1429.5673 \left(\frac{PX\$}{PW\$} \right) \\
 \quad \quad (5.4269) \\
 \quad \quad + 1530.2427 \\
 \quad \quad (6.0839) \\
 \quad \quad [0.93; 43.3; 860.5; 1.88] \\
 7b. \quad XS = 1.2658 XW\$ - 140.9494 DUW \\
 (1965-72) \quad (4.7268) \quad (3.2814) \\
 \quad \quad + 429.4370 \\
 \quad \quad (5.8838) \\
 \quad \quad [0.76; 36.9; 860.5; 1.88] \\
 7c. \quad L.X\$ = 0.8196 L.XW\$ + 2.0129 \\
 \quad \quad (6.8000) \quad (3.0837) \\
 \quad \quad [0.79; 0.1; 6.8; 0.82] \\
 8. \quad XG\$ = 0.7604 X\$ + 124.4633 \\
 (1964-72) \quad (4.8484) \quad (1.0388) \\
 \quad \quad [0.76; 31.5; 761.0; 2.28]
 \end{array}$$

V. *Imports*

$$\begin{array}{l}
 9a. \quad M\$ = 0.0338 YD\$ \\
 \quad \quad (1.4707) \\
 \quad \quad - 361.7298 \left(\frac{PM\$ \cdot E}{P} \right) \\
 \quad \quad (1.8717) \\
 \quad \quad + 322.0400 DUM \\
 \quad \quad (2.8351) \\
 \quad \quad - 287.2251 DUW + 1219.5481 \\
 \quad \quad (1.9394) \quad (6.1643) \\
 \quad \quad [0.64; 131.4; 982.4; 0.94;] \\
 9b. \quad M\$ = 1.2885 MG\$ - 84.2595 \\
 (1965-72) \quad (10.8731) \quad (0.6967) \\
 \quad \quad [0.94; 57.6; 982.4; 3.16] \\
 9c. \quad L.M. = 0.1487 L.YD + 7.0378 \\
 \quad \quad (0.7022) \quad (3.1371) \\
 10a. \quad MG\$ = 0.7386 M\$ + 110.8222 \\
 (1965-72) \quad (10.8729) \quad (1.3230) \\
 \quad \quad [0.94; 43.6; 952.0; 3.29]
 \end{array}$$

Eq.
No.

10b. $MG\$ = 0.0736 YDS$

VI. *Prices*

11. $PA = -0.4646 \left(\frac{YA_{-1}}{YNA} \right) + 0.1556 (PX\$ \cdot E) + 0.6923 PA_{-1} + 0.4211$
 (1.4819) (4.0608) (3.1950) (1.2667)
 [0.92; 0.04; 1.28; 2.23]
12. $PNA = 0.1363 I.YD + M + 0.1423 \left(\frac{L}{I.YD} \right) + 0.1230 PA + 0.0353 (PM\$ \cdot E) + 0.6450 PNA_{-1} - 0.0522$
 (2.9777) (3.0575) (1.7734) (2.6645) (8.7725) (1.9856)
 [0.99; 0.01; 1.20; 3.21]
13. $P = 0.0602 PA + 0.8335 PNA + 0.0860$
 (0.2024) (2.9524) (1.2475)
 [0.94; 0.04; 1.17; 0.92]
14. $PX\$ = 0.6053 PX_{0-9}\$S + 0.8626 PX\$_{-1} - 0.4236$
 (1.9955) (2.7029) (3.5027)
 [0.91; 0.04; 1.27; 1.79]
15. $PM\$ = 1.9411 PM_{0-9}\$S - 1.0874$
 (4.8817) (2.7817)
 [0.66; 0.09; 1.10; 1.15]

VII. *Identities*

16. $YDT = YD + Y^* \left(\frac{1}{PM\$ \cdot E} - \frac{1}{PX\$ \cdot E} \right)$
17. $YNT = YDT - YF$

Exogenous variables:

$XW\$, PW\$, L, TIME, YF, YN, E, ER, DUW, DUM, PX_{0-9}\$, PM_{0-9}\$S.$

Model of the Philippines

Base Period: 1955-1973

I. *Production*

Eq.
No.

1. $L.YA = 0.0365 TIME + 8.5952$
 (39.2927) (579.9238)
 R^2 S.E. Y73 d
 [0.99; 0.02; 9.46; 1.71]
2. $YNA = 0.1435 C.IF_{-1,2} + 9993.0605$
 (56.5110) (66.6636)
 [0.99; 361.0; 26690.9; 0.82]
- 3a. $YD = 1.3793 (YA + YNA) - 5008.6870$
 (67.4132) (8.9386)
 [0.99; 586.4; 50425.3; 0.47]
- 3b. $YD = 0.2781 C.IF_{-1,2} + 17979.3713$
 (63.5114) (69.5710)
 [0.99; 622.3; 50425.3; 1.03]

II. *Consumption*

4. $\frac{CP}{N} = 0.4616 \left(\frac{YNT \cdot TX}{N} \right) + 453.6896 \left(\frac{YA}{YNA} \right) + 0.6948 \left(\frac{CP}{W} \right)_{-1} - 444.8642$
 (2.6648) (1.7914) (4.1346) (1.7408)
 [0.88; 21.5; 836.5; 2.25]
5. $CG = 0.5336 TX + 1253.6677$
 (12.0931) (7.9745)
 [0.89; 250.8; 4479.0; 1.11]

III. *Investment*

6. $IF = 0.1517 YDT + 0.7376 M_{5-9} - 3013.3389 \left(\frac{PA}{PNA} \right) + 702.591$
 (4.8018) (5.6022) (1.7522) (0.8306)
 [0.97; 314.5; 9001.8; 1.92]

IV. Exports

Eq.
No.

7. $X_{0+1}\$ = 5.4523 XW_{0+1}\$ - (9.1490)$
 $-152.0565 \left(\frac{PX_{0+1}\$S}{PW_{0+1}\$} \right) (4.9244)$
 $+203.5382 (5.3510)$
 [0.86; 21.0; 264.7; 1.22]
8. $X_{2+4}\$ = 20.1905 XW_{2+4}\$ (7.0021)$
 $-214.9527 \left(\frac{PX_{2+4}\$S}{PW_{2+4}\$} \right) (1.5722)$
 $+242.1947 (3.0927)$
 [0.79; 54.8; 715.2; 1.41]
9. $X_3\$ = 1.2391 XW_3\$ (1960-73) (12.7623)$
 $-23.0595 PX_3\$S + 7.1163 (7.4280) (2.9414)$
 [0.93; 1.8; 8.8; 2.07]
10. $X_{5-9}\$ = 1.0538 XW_{5-9}\$ - 48.8953 (16.0841) (4.8888)$
 [0.93; 19.2; 264.6; 1.68]
- 11a. $XG\$ = 1.2182 X_{0-9}\$ - 202.5554 (18.4415) (3.3358)$
 [0.95; 65.5; 1516.1; 0.70]
- 11b. $XG\$ = 1.4673 XW\$ (2.6107)$
 $-162.6746 \left(\frac{PX\$}{PW\$} \right) (1.2109)$
 $+0.5880 XG\$_{-1} + 234.5801 (2.9695) (1.5993)$
 [0.97; 47.1; 1516.1; 1.88]
- 11c. $L.XG\$ = 0.7676 L.XW\$ + 2.6832 (19.4266) (12.8378)$
 [0.95; 0.1; 7.3; 1.07]
12. $XG\$*B = 0.9986 XG\$* - 7.8933 (39.5291) (0.3603)$
 [0.99; 37.5; 1876.0; 0.74]
13. $XS\$* = 0.2679 XW\$* (1.6670)$

Eq.
No.

- $+0.6622 XS\$*_{-1} (3.5302)$
 $+159.9225 DUX + 12.4599 (2.1037) (0.3845)$
 [0.79; 53.1; 522.7; 1.57]
14. $X\$*B = 1.3043 XG\$*B - 33.2831 (29.9953) (0.8905)$
 [0.98; 64.8; 2393.0; 0.72]

V. Imports

15. $M_{0+1}\$ = 0.1348 M_{0-9}\$ (1960-73)$
 [; ; 123.1;]
16. $M_{2+4}\$ = 0.0332 YNA\$ (9.1025)$
 $-54.9571 \left(\frac{PM_{2+4}\$S \cdot E}{P} \right) (3.2131)$
 $+3.4402 (0.3145)$
 [0.85; 8.9; 60.7; 1.62]
- 17a. $M_3\$ = 0.0257 YD\$ (10.5370)$
 $-64.0214 \left(\frac{PM_3\$S \cdot E}{P} \right) (3.4712)$
 $+9.8970 (0.9798)$
 [0.91; 9.3; 114.5; 1.50]
- 17b. $M_3S = 0.0190 YDS - 11.6359 (10.3250) (1.1551)$
 [0.85; 11.8; 9.0; 0.91]
18. $M_{5-9}\$ = 0.1975 YD\$ (7.4681)$
 $-786.0282 \left(\frac{PM_{5-9}\$O \cdot E}{P} \right) (3.0732)$
 $+250.8064 (2.5259)$
 [0.86; 79.9; 932.9; 1.07]
- 19a. $MG\$ = 0.9400 M_{0-9}\$ + 47.7533 (1970-63) (10.2431) (0.4726)$
 [0.89; 82.7; 1382.0; 0.80]
- 19b. $L.MG = 0.6057 L.YD + 2.4222 (4.7088) (1.8237)$

- Eq. No. [0.54; 0.2; 9.0; 0.71]
20. $MG\$*FB=0.8622 MG\$*+24.5755$
(53.3216) (1.4917)
- [0.99; 25.2; 1600.0; 1.32]
21. $M\$=1.0071 MG+110.7268$
(15.0829) (1.6123)
- [0.93; 66.9; 1588.2; 1.25]
22. $M\$*B=1.2754 MG\$*FB-39.5997$
(62.3867) (2.1478)
- [0.99; 27.6; 2035.0; 1.52]
- VI. *Prices*
23. $PA=0.1776 (PX\$*E)+1.0086 PA_{-1}$
(2.4699) (13.2604)
- 0.0443
(2.6927)
- [0.99; 0.03; 1.53; 1.56]
24. $PNA=0.2670 I.YD+M+0.2672 PA$
(2.4081) (2.9732)
- +0.1271 ($PMS\$*E$)
(2.9527)
- +0.2668 $PNA_{-1}+0.0984$
(1.1991) (2.5179)
- [0.99; 0.01; 1.37; 1.84]
25. $P=0.3611 PA+0.5942 PNA$
(9.2596) (11.0786)
- +0.0316
(2.2262)
- [0.99; 0.01; 1.39; 2.63]
26. $PX\$=0.4929 PX_{0-9}\S
(6.7485)
- +0.2829 $PX\$_{-1}+0.2032$
(1.7117) (1.4688)
- [0.76; 0.05; 1.19; 1.33]
27. $PM\$=0.2058 PM_{0-9}\S
(1.8023)
- +0.8907 $PM\$_{-1}-0.0691$
(8.1713) (0.8576)
- [0.91; 0.05; 1.28; 1.75]
- VII. *Other equations and identities*
28. $YF\$*B=0.0574 C.TG\$*_{-1}+29.0107$
(1960-73) (4.0602) (2.3811)

- Eq. No. [0.54; 27.8; 113.0; 1.11]
29. $YF\$*=0.9018 YF\$B+5.6597$
(10.8923) (0.9107)
- [0.87; 12.4; 66.8; 1.6]
30. $TX=0.1399 YD-1113.6221$
(18.0795) (4.3694)
- [0.95; 306.5; 6844.9; 1.1]
31. $YDT=YD+X*\left(\frac{1}{PM\$*E}\right.$
 $\left.-\frac{1}{PX\$*E}\right)+\frac{TF\$*B*ER}{PM\$*E}$
32. $YNT=YDT-\frac{YF\$*ER}{PMS*E}$
33. $X_{0-9}\$=X_{0+1}\$+X_{2+4}\$+X_3\$$
 $+X_{5-9}\$$
34. $M_{0-9}\$=M_{0+1}\$+M_{2+4}\$+M_3\$$
 $+M_{5-9}\$$
35. $IS=YD-CP-CG-IF$
 $-XG\$*ER70-\frac{XS\$*ER}{PX\$*E}$
 $+M\$*ER70$
36. $TG\$*=M\$*B+YF\$*B-X\$*B$

Exogenous variables:

$XW_{0+1}\$, XW_{2+4}\$, XW_3\$, XW_{5-9}\$,$
 $PW_{0+1}\$, PW_{2+4}\$, PX_{0+1}\$S,$
 $PX_{2+4}\$S, PX_3\$S, PX_{0-9}\$S,$
 $PM_{0-9}\$S, PM_{2+4}\$S, PM_3\$S,$
 $PM_{5-9}\$O, N, E, ER, TF\$*B,$
 $TIME, DUX.$

Model of Singapore

Base Period: 1961-1972

I. *Production*

- Eq. No.
1. $L.YA=0.0473 TIME+3.9090$
(10.7403) (49.7239)
- R² S.E. Y72 d
[0.91; 0.05; 5.04; 0.99]

Eq. No.		Eq.	
2.	$YNA=0.3995 C.IF_{-1/2}$ (8.4740)		$+141.8074 DUX-517.8614$ (5.6811) (7.1394)
	$+0.3228 M_{2-9}+1296.2606$ (4.7230) (7.4126)		[0.94; 26.7; 525.6; 1.78]
	[0.99; 106.2; 7062.1; 0.78]	9.	$X_3\$=16.9986 XW_3\-120.4915 (8.1905) (2.5965)
3a.	$YD=1.0054 Y+211.5996$ (58.2093) (2.7828)		[0.86; 44.3; 397.2; 0.99]
	[0.99; 90.6; 7347.1; 2.16]	10.	$X_{5-9}\$=1.8055 XW_{5-9}\$$ (3.9374)
3b.	$YD=0.6249 C.IF_{-1/2}+2402.6544$ (23.3610) (22.6453)		$-805.9339\left(\frac{PX_{5-9}\$S}{PXD_{5-9}\$}\right)$ (1.4307)
	[0.98; 224.0; 7347.1; 1.10]		$+90.8260 DUX$ (1.2585)
II. <i>Consumption</i>			$+1.0089 X_{5-9}\$_{-1}+509.5721$ (2.4019) (0.6632)
4.	$\left(\frac{CP}{N}\right)=0.2807\left(\frac{YNT}{N}\right)$ (4.9891)		[0.92; 48.1; 1016.5; 1.76]
	$+0.2946\left(\frac{CP}{N}\right)_{-1}+486.4826$ (1.5285) (3.1635)	11a.	$XG\$=0.7950 X_{0-9}\$+399.4470$ (7.7209) (3.1587)
	[0.99; 28.1; 2032.7; 1.81]		[0.84; 114.1; 1914.9; 0.81]
5.	$CG=0.1316 YD-115.0040$ (29.2238) (5.5210)	11b.	$XG\$=5.3180 XW\$$ (14.3135)
	[0.99; 23.8; 870.5; 0.98]		$+406.3090 DUX-37.0012$ (7.1103) (0.3660)
III. <i>Investment</i>			[0.95; 63.4; 1914.9; 1.93]
6a.	$IF=0.1693 YDT_{-1}+0.2413 M_{5-9}$ (1.5662) (2.3336)	11c.	$L.XG\$=0.5682 L.XW\$+4.0888$ (3.9948) (5.2744)
	$-1696.5646\left(\frac{PA}{PNA}\right)$ (2.5690)		[0.58; 0.1; 7.6; 0.76]
	$+1003.6763$ (1.6572)	12.	$XG\$*B=0.9578 XG\$*-30.9650$ (1965-73) (157.7964) (2.7586)
	[0.98; 679.; 1978.8; 2.39]		[0.99; 14.0; 2035.0; 2.97]
6b.	$IF=0.3780 YD_{-1}-717.7627$ (13.9238) (6.3642)	13.	$XS\$=153.8357 TIME-2078.2135$ (9.1248) (6.9108)
	[0.95; 127.4; 1978.8; 10.6]		[0.88; 201.6; 1523.1; 0.38]
IV. <i>Exports</i>		14.	$X\$*B=1.2005 XG\$*B+148.7048$ (1965-73) (74.7191) (5.3098)
7.	$X_{0+1}\$=3.1194 XW_{0+1}\$$ (3.3634)		[0.99; 35.4; 2624.0; 1.15]
	$+42.3548 DUX+63.8399$ (3.6767) (1.8026)	V. <i>Imports</i>	
	[0.54; 12.2; 193.4; 1.09]	15.	$M_{0+1}\$=0.1513 CP\$+24.4912 DUM$ (5.8463) (1.8776)
8.	$X_{2+4}\$=32.3034 XW_{2+4}\$$ (12.7637)		$+147.4664$ (5.2922)

- Eq. No. [0.76; 15.9; 346.1; 1.09]
16. $M_{2+4}\$ = 0.1094 YNA\$$
(1965-72) (8.6269)
+106.8608 DUM +112.7320
(7.4722) (5.7652)
[0.88; 17.9; 354.6; 1.84]
17. $M_3\$ = 0.1499 YD\$ + 20.9808 DUM$
(9.1143) (1.1092)
+29.6053
(1.0855)
[0.91; 23.4; 364.0; 0.69]
18. $M_{5-9}\$ = 0.9499 YD\$$
(27.6105)
+120.4596 DUM -431.7435
(3.0422) (7.5667)
[0.99; 49.0; 1872.0; 0.98]
- 19a. $MG\$ = 0.9728 M_{0-9}S + 78.6842$
(43.9211) (1.8905)
[0.99; 44.3; 2970.2; 1.13]
- 19b. $L.MG = 0.8527 L.YD + 0.3704$
(8.9175) (0.4649)
[0.88; 0.1; 8.1; 0.58]
20. $MG\$FB = 0.9564 MS\$* - 35.1422$
(1965-73) (140.7370) (1.9468)
[0.99; 23.9; 3158.0; 1.73]
21. $MS\$* = 0.2128 MG\$ - 205.6586$
(1966-72) (4.9781) (2.1141)
[0.80; 80.0; 582.2; 1.44]
22. $M\$*B = 1.1235 MG\$*FB - 41.1003$
(1965-73) (325.7341) (4.7491)
[0.99; 11.6; 3531.0; 2.08]

VI. Prices

23. $PA = -12.9892 \left(\frac{YA_{-1}}{YNA} \right) + 1.3023$
(1962-72) (10.0728) (34.4589)
[0.91; 0.02; 1.0; 2.03]
24. $PNA = 0.1508 I.YD + M$
(3.8249)
+0.3255 ($PMS \cdot E$) +0.5446
(1.5123) (3.0113)
[0.94; 0.01; 1.1; 1.46]

- Eq. No. 25. $P = 0.1623 PA + 0.6382 PNA$
(0.7258) (2.1125)
+0.1987
(1.3052)
[0.73; 0.03; 1.05; 0.69]
26. $PX\$ = 0.8283 PX_{0-9}\S
(1962-72) (2.4412)
+0.9373 $PX\$_{-1}$ -0.7348
(4.3884) (2.8421)
[0.86; 0.03; 1.14; 1.15]
27. $PM\$ = 0.9163 PM_{0-9}\$S + 0.0789$
(22.7345) (2.0117)
[0.98; 0.01; 1.14; 1.93]

VII. Other equations and identities

28. $L.-YF\$*B = 0.1935 TIME + 0.2672$
(1965-73) (8.7646) (0.6104)
[0.89; 0.2; 4.7; 1.18]
29. $YF\$ = 0.9877 YF\$*B + 0.3222$
(1965-73) (61.2278) (0.3970)
[0.99; 1.3; -65.9; 1.91]
30. $YDT = YD + X* \left(\frac{1}{PM\$ \cdot E} - \frac{1}{PX\$ \cdot E} \right)$
31. $YNT = YDT - \frac{YF\$* \cdot ER}{PM\$ \cdot E}$
32. $X_{0-9}\$ = X_{0+1}\$ + X_{2+4}\$ + X_3\$ + X_{5-9}\$$
33. $M_{0-9}\$ = M_{0+1}\$ + M_{2+4}\$ + M_3\$ + M_{5-9}\$$

Exogenous variables:

$TIME, N, XW_{2+4}\$, XW_3\$, XW_{5-9}\$, PXD_{5-9}\$, PX_{5-9}\$S, PX_{0-9}\$S, PM_{0-9}\$S, ER, E, DUX, DUM.$

Model of Sri Lanka

Base Period: 1955-1973

I. *Production*

Eq.
No.

1. $L.YA = 0.0281 TIME + 7.6597$
(16.9577) (289.4600)
 R^2 S.E. Y73 d
[0.94; 0.04; 8.3; 1.03]
2. $YNA = 0.1661 C.IF_{-1,2} + 3525.7438$
(26.2193) (33.7444)
[0.97; 240.9; 8560.6; 0.64]
- 3a. $YD = 1.1021 Y - 399.8710$
(45.0276) (1.7507)
[0.99; 209.3; 13104.6; 1.09]
- 3b. $YD = 0.2457 C.IF_{-1,2} + 6217.2857$
(25.2950) (38.8192)
[0.97; 369.2; 13104.6; 0.73]

II. *Consumption*

4. $CP = 0.9290 (YNT - TX) - 363.5939$
(26.0132) (1.2494)
[0.97; 204.9; 8573.6; 1.28]
5. $CG = 0.4716 TX + 533.4019$
(9.4617) (5.5790)
[0.83; 119.3; 1801.0; 0.78]

III. *Investment*

6. $IF = 0.2421 YDT_{-1} - 712.9096$
(11.6852) (3.4992)
[0.88; 166.9; 2305.4; 1.83]

IV. *Exports*

- 7a. $XG\$ = 0.2377 XW\$ + 0.3593 XG\$_{-1}$
(2.8954) (1.3485)
+155.8148
(2.2172)
[0.78; 20.0; 414.1; 1.69]
- 7b. $L.XG\$ = 0.2245 L.XW\$ + 4.5723$
(6.5998) (25.4151)
[0.70; 0.1; 6.0; 1.42]
8. $XG\$_{*}B = 0.8569 XG\$_{*} + 45.4386$
(13.8070) (2.0154)
[0.91; 7.1; 368.1; 2.18]

Eq.
No.

9. $X\$ = 1.0918 XG\$ + 4.0365$
(15.1557) (0.1752)
[0.93; 10.9; 460.1; 1.39]
10. $X\$_{*}B = 0.9540 XG\$_{*}B + 60.1581$
(16.3069) (2.8829)
[0.94; 6.0; 426.3; 0.60]

V. *Imports*

- 11a. $MG\$ = 0.1634 YD\$$
(1965-73) (1.8453)
 $-1058.6866 \left(\frac{PM\$ \cdot E}{P} \right)$
(1.5215)
 $+3.6751 \left(\frac{R\$*}{PM\$} \right)_{-1}$
(2.3552)
 $+904.0745$
(1.5064)
[0.39; 39.4; 380.6; 1.64]
- 11b. $MG\$ = 0.2129 YD\$$
(1960-73)
- 11c. $L.MG\$ = 0.1312 L.YD\$ + 6.4712$
(1965-73) (0.3028) (1.5962)
- 12a. $MG\$_{*}FB = 0.4939 MG\$_{*}$
(3.8190)
 $+172.0823$
(3.5775)
[0.43; 22.6; 338.7; 0.94]
- 12b. $MG\$_{*}FB = 0.9592 MG\$_{*}$
- 13a. $M\$ = 0.6915 MG\$ + 173.7694$
(5.1202) (3.3819)
[0.58; 25.3; 386.9; 1.53]
- 13b. $M\$ = 1.1676 MG\$$
14. $M\$_{*}B = 1.0424 MG\$_{*}FB + 55.6148$
(20.7788) (3.1149)
[0.96; 6.4; 405.1; 0.62]

VI. *Prices*

15. $PA = -0.7897 \left(\frac{YA_{-1}}{YNA} \right)$
(4.7593)
 $+0.4514 (PX\$ \cdot E)$
(4.4667)
 $+0.2436 (PM_{0+1}\$ \cdot S \cdot E)$
(9.5809)

- Eq. No. $+0.1806 PA_{-1} + 0.5035$
(1.5222) (4.0234)
[0.97; 0.02; 1.28; 2.14]
16. $PNA = 0.2930 PA + 0.8711 PNA_{-1}$
(11.0772) (28.6591)
 -0.1225
(6.0523)
[0.99; 0.01; 1.20; 2.09]
17. $P = 0.4946 PA + 0.4631 PNA$
(1955-72)(6.9951) (7.5209)
 $+0.0517$
(1.1005)
[0.95; 0.02; 1.17; 1.18]
18. $PX\$ = 0.3984 PX_{0-9}\S
(3.7429)
 $+0.6433 PX\$_{-1} - 0.0732$
(6.2693) (0.9701)
[0.94; 0.04; 0.94; 1.32]
19. $PN\$ = 0.2277 PM_{0-9}\$ + 0.7525$
(4.0120) (13.0740)
[0.46; 0.04; 1.11; 1.60]
- VII. *Othe\$ equations and identities*
20. $YF\$*B = 0.0224 C.TG\$*_{-1} + 5.2859$
(1960-73) (4.9366) (2.9023)
[0.64; 3.8; 17.3; 1.30]
21. $YF\$ = 1.0417 YF\$*B - 0.3579$
(37.3866) (0.9701)
[0.99; 0.6; 17.p0; 2.59]
- 22a. $R\$* = 0.3609 F\$* - 0.4976 TG\$*$
(1956-73) (2.2963) (4.0145)
 $0.7963 R\$*_{-1} + 20.4546$
(11.5525) (1.6105)
[0.93; 14.6; 87.0; 2.05]
- 22b. $R\$* = 0.25 (\alpha \cdot M\$B_{-1})$
 $+ (1-\alpha)R\$*_{-1}$
23. $TX = 0.2470 YD - 546.8185$
(18.7422) (4.1925)
[0.95; 124.7; 3033.8; 1.32]
24. $YDT = YD + X* \left(\frac{1}{PM\$ \cdot E} \right)$

- Eq. No. $-\frac{1}{PX\$ \cdot E} + \frac{TFP\$*B \cdot ER}{PM\$ \cdot E}$
25. $YNT = YDT - \frac{YF\$* \cdot ER}{PM\$ \cdot E}$
26. $TG\$* = M\$*B + YF\$*B - X\$*B$
- Exogenous variables:*
TIME, XW\$, E, ER, PM_{0+1}\\$S,
*PX_{0-9}\\$S, PM_{0-9}\\$S, TFP\\$*B, F\$,*
a.

Model of Syria

Base Period: 1963-1973

I. Production

- Eq. No. 1. $YD = 0.3904 C.I_{-2,1} + 4293.0359$
(15.3746) (32.5925)
 R^2 S.E. Y73 d
[0.96; 244.5; 7863.3; 1.78]

II. Consumption

2. $CP = 0.5115 YNT + 1084.2404$
(12.7463) (4.4152)
[0.94; 158.3; 4979.8; 1.47]
3. $CG = 0.2884 YD - 658.0943$
(13.9272) (5.2260)
[0.95; 79.3; 1715.1; 2.20]

III. Investment

4. $I = 0.2720 YDT - 0.1684 YDT_{-1}$
(1964-73)(4.6247) (2.4900)
 $+ 0.4062 MG - 276.2838$
(3.0748) (2.3592)
[0.96; 59.5; 1437.5; 1.23]

IV. Exports

- 5a. $XG\$ = 0.2198 XW\$$
(2.1916)
 $-244.0170 \left(\frac{PX\$}{PW\$} \right) + 386.0981$
(2.3251) (3.3165)
[0.62; 21.7; 304.3; 1.14]

Eq.
No.

- 5b. $XG\$ = 0.3807 XW\$ + 102.6827$
(1964-73) (3.1974) (2.9866)
[0.51; 25.9; 304.3; 1.14]
6. $XS\$^* = 17.6907 TIME - 217.8525$
(7.2469) (4.6332)
[0.84; 25.6; 250.5; 1.36]
7. $XG\$^*B = 1.0634 XG\$^* - 10.3554$
(11.6337) (0.5402)
[0.93; 15.2; 338.0; 2.77]
3. $X\$^*B = 1.7696 XG\$^*B - 36.3996$
(11.0889) (1.0687)
[0.92; 29.2; 572.0; 1.44]

V. Imports

- 9a. $MG\$ = 0.3416 YD\$$
(6.7289)
 $- 497.8397 \left(\frac{PM\$ \cdot E}{P} \right)$
(2.6011)
 $+ 309.7870$
(2.0529)
[0.84; 37.0; 558.9; 2.20]
- 9b. $MG\$ = 0.2508 YD\$ - 51.7837$
(5.3109) (0.6886)
[0.73; 47.3; 558.9; 2.16]
10. $MS\$ = 0.0915 MG\$ + 2.9283$
(3.5385) (0.3135)
[0.54; 9.8; 43.5; 0.98]
11. $MG\$^*FB = 0.8990 MG\$ + 7.7275$
(41.9732) (0.9985)
[0.99; 8.1; 546.0; 2.75]
12. $M\$^*B = 1.1863 MG\$^*FB - 3.2285$
(78.8614) (0.6460)
[0.99; 5.1; 641.0; 1.66]

VI. Prices

13. $P = 0.2141 \left(\frac{L}{I \cdot YD} \right) + 0.2106 (PM\$ \cdot E)$
(3.4507) (2.2658)
 $+ 0.5923$
(8.8834)
[0.85; 0.03; 1.11; 1.76]
14. $PX\$ = 0.7287 PX_{0-9}\$ + 0.2106$
(1963-72) (3.3587) (0.9535)

Eq.
No.

- [0.53; 0.06; 1.11; 1.15]
15. $PM\$ = 1.2071 PM_{0-9}\$$
(1963-72) (7.2425)
 $+ 0.0554 PM_{-1}\$ - 0.2540$
(1.2982) (1.6539)
[0.89; 0.04; 1.06; 2.14]

VII. Other equations and identities

16. $L \cdot YF = 0.0571 TIME + 3.5132$
(1964-73) (3.5817) (11.1710)
[0.57; 0.14; 2.10; 1.90]
17. $YDT = YD + X^* \left(\frac{1}{PM\$ \cdot E} - \frac{1}{PX\$ \cdot E} \right) + \frac{TEP\$^*B \cdot ER}{PM\$ \cdot E}$
18. $YNT = YDT - YF$

Exogenous variables:

$XW\$, PW\$, TIME, TFP\$^*B, E, ER, PX_{0-9}\$, PM_{0-9}\$, L$

Model of Taiwan Province

Base Period: 1955-1973

I. Production

- No.
No.
1. $YA = 0.3446 C.IFA_{-1/2} + 16903.052$
(18.6257) (30.3805)
R² S.E. Y73 d
[0.95; 1435.2; 35298.0; 0.45]
2. $YNA = 0.3990 C.IFNA_{-1/2}$
(37.3985)
 $+ 39955.249$
(21.2552)
[0.99; 5608.0; 201656.0; 0.23]
3. $L \cdot YMF = 1.7939 L \cdot YD - 11.4347$
(85.6089) (46.3053)
[0.99; 0.04; 11.3; 0.47]
- 4a. $YD = 1.2987 (YA + YNA)$
(120.1123)
 $- 5674.934$
(4.0822)

Eq. No.		Eq. No.	
	[0.99; 2566.5; 304726.0; 0.49]	10.	$XG\$*B=1.0246 XG\-1.3677 (793.5922) (0.7608)
4b.	$YD=0.5103 C.IF_{-1/2}+67665.8747$ (46.9791) (30.2536)		[0.99; 6.2; 4485.6; 1.06]
	[0.99; 6540.5; 304726.0; 0.20]	11.	$XS\$=0.3220 XW\$+0.8248XS\$_{-1}$ (1.8056) (4.5585)
II. <i>Consumption</i>			-28.2132 (1.2544)
5.	$\frac{CP}{N}=0.3149 \left(\frac{YNT-TX}{N}\right)$ (4.5535)		[0.97; 25.9; 435.7; 2.01]
	+0.4631 $\left(\frac{CP}{N}\right)_{-1}+768.355$ (3.3700) (2.9451)	12.	$X\$*B=1.1244 XG\$*B+21.6042$ (165.8702) (2.2352)
	[0.99; 113.3; 9861.5; 1.50]		[;0.99 33.3; 5043.6; 0.48]
6.	$CG=0.5855 YX+15397.843$ (22.1058) (20.9731)	V. <i>Imports</i>	
	[0.96; 1607.6; 46117.0; 0.45]	13.	$M_3\$=0.0159 YD\-21.4397 (7.3170) (2.4315)
III. <i>Investment</i>			[0.74; 16.8; 72.5; 2.50]
7.	$IFA=0.1838 YA_{-1}+0.2947 IFA_{-1}$ (4.3544) (1.6398)	14a.	$MOT\$=0.1245 YD\$$ (1.7401)
	-2068.814 (4.1030)		+1.3394 $\left(\frac{R\$*}{PM\$}\right)_{-1}$ (2.9258)
	[0.98; 231.3; 6222.0; 2.39]		+542.1743 <i>DUM</i> (3.4735)
8.	$IFNA=0.2787 YNAT_{-1}$ (7.1243)		-174.8321 (1.3881)
	+0.3093 <i>MOT</i> (4.9647)		[0.96; 137.7; 2714.9; 1.11]
	-10242.362 $\left(\frac{PA}{PNA}\right)$ (1.7944)	14b.	$MOT\$=0.2579 YD\$$ (3.2065)
	+2270.705 (0.3512)		+1.0906 $\left(\frac{R\$*}{PM\$}\right)_{-1/2}$ (1.5676)
	[0.99; 1845.0; 71555.0; 1i60]		-466.2630 (4.2201)
IV. <i>Exports</i>			[0.94; 173.6; 2714.9; 0.39]
9a.	$XG\$=0.5176 YMF\$$ (2.2515)	15.	$L.MG=1.5177 L.YD-6.5416$ (16.3685) (7.4385)
	-248.2534 $\left(\frac{PX\$}{PW\$}\right)$ (1.6363)		[0.94; 0.2; 9.3; 0.42]
	+0.9454 $XG\$_{-1}+137.2683$ (5.4282) (1.0816)	16.	$MG\$*FB=0.9412 MG\$*+5.2544$ (104.6247) (0.4574)
	[0.99; 57.1; 3415.4; 1.38]		[0.99; 36.6; 3646.2; 1.88]
9b.	$XG\$=9.4941 XW\-1187.2309 (11.0988) (6.0312)	17.	$MS\$*=0.0732 MG\$*+34.6243$ (1960-73) (4.1704) (1.3307)
	[0.87; 331.0; 3415.4; 0.26]		[0.56; 64.7; 219.3; 1.92]

<p>Eq. No.</p> <p>18. $M\\$*B=1.2042 MG\\$*FB-1.7900$ (207.8077) (0.2561) [0.99; 22.2; 4361.6; 1.29]</p> <p>VI. <i>Prices</i></p> <p>19. $PA=-1.0124 \left(\frac{YA_{-1}}{YNA}\right)$ (2.4114) +0.5835 $PA_{-1}+0.6907$ (3.6535) (2.7135) [0.94; 0.05; 1.21; 1.58]</p> <p>20. $PNA=0.1036 I.YD+M$ (2.7307) +0.1129 $(PM\\$*E)$ (1.8068) +0.7395 $PNA_{-1}+0.0664$ (7.2755) (2.2062) [0.99; 0.02; 1.16; 01.51]</p> <p>21. $P=0.2785 PA+0.7164 PNA$ (26.5627) (68.4575) +0.0042 (1.4080) [0.99; 0.003; 1.17; 1.94]</p> <p>VII. <i>Other equations and identities</i></p> <p>22. $YF\\$*B=0.0673 C.TG\\$*_{-1}$ (1965-73) (7.6146) +0.0079 $X\\$*B-6.0674$ (6.5023) (1.7657) [0.90; 4.7; 11.9; 2.39]</p> <p>23a. $R\\$*=0.7513 F\\$*-0.9398 TG\\$*$ (6.3459) (9.5681) +0.7787 $R\\$_{-1}+72.9282$ (8.2574) (2.3603) [0.98; 45.3; 1123.0; 2.8]</p> <p>23b. $R\\$*=0.25 (\alpha \cdot M\\$*B_{-1})$ +(1-α)$R\\$*_{-1}$</p> <p>24. $TX=0.1949 YD-4404.018$ (29.4996) (4.1185) [0.98; 2037.6; 57605.3; 0.48]</p> <p>25. $YNT=YD$ +$X*\left(\frac{1}{PM\\$*E}-\frac{1}{PX\\$*E}\right)$</p>	<p>Eq. No.</p> <p>+ $\frac{(TFP\\$*B-YF\\$B)ER}{PM\\$*E}$</p> <p>26. $YNAT=YNA$ +$X*\left(\frac{1}{PM\\$*E}-\frac{1}{PX\\$*E}\right)$ + $\frac{TFP\\$*B \cdot ER}{PM\\$*E}$</p> <p>27. $IF=IFA+IFNA$</p> <p>28. $MG\\$=M_3\\$+MOT\\$</p> <p>29. $TG\\$=M\\$*B+YF\\$*B-X\\$*B$</p> <p><i>Exogenous variables:</i> $N, XW\\$, PW\\$, F\\$, TFP\\$*B, E,$ $ER, PX\\$, PM\\$, DUM, \alpha.$</p> <p style="text-align: center;">Model of Thailand Base Period: 1958-1973</p> <p>I. <i>Production</i></p> <p>Eq. No.</p> <p>1. $L.YA=0.0524 TIME-0.0380 DUA$ (29.4946) (2.1514) +9.4623 (311.1987) R² S.E. Y73 d [0.98; 0.03; 10.7; 0.93]</p> <p>2a. $YNAC=0.2773 C.IF_{-1/2}$ (3979.4839) +41245.03 (3685.6560) [; ; 1299990.0;]</p> <p>2b. $YNA=0.2135 C.IF_{-1/2}$ (18.0667) +0.9814 $M_{2-9}+24968.5600$ (5.9146) (14.3521) [0.99; 1756.9; 118350.0; 1.85]</p> <p>3. $UC=-0.000132 C.IF_{-1/2}$ (5.5082) +0.001625 YA_{-1} (3.7771) +0.000909 $M_{2-9}+42.1251$ (3.1249) (5.7262)</p>
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<p>Eq. No.</p> <p>[0.89; 2.3; 91.1; 1.45]</p> <p>4. $YD = 0.3499 C.IF_{-1} + 563.4362$ (29.0032) (29.0816)</p> <p>[0.98; 47.5; 161330.0; 0.23]</p>	<p>Eq. No.</p> <p>10. $X_{2+4}\\$ = 6.2711 XW_{2+4}\\$ (3.6523)</p> <p>$-59.4356 \left(\frac{PX_{2+4}\\$S}{PW_{2+4}\\$} \right)$ (1.2649)</p> <p>+91.1392 (0.9867)</p> <p>[0.81; 21.9; 289.3; 1.02]</p> <p>11. $X_3\\$ = 0.3894 XW_3\\$ - 5.4635$ (6.6058) (4.2468)</p> <p>[0.74; 1.8; 71.3; 0.79]</p> <p>12. $X_{5-9}\\$ = 1.4697 XW_{5-9}\\$ (18.2140)</p> <p>$-91.1428 \left(\frac{PX_{5-9}\\$S}{PXD_{5-9}\\$} \right)$ (1.8060)</p> <p>-24.2635 (0.5449)</p> <p>[0.96; 20.1; 333.2; 1.09]</p> <p>13a. $XG\\$ = 0.9287 X_{0-9}\\$ + 90.8343$ (28.3504) (4.3001)</p> <p>[0.98; 29.0; 1097.1; 0.96]</p> <p>13b. $XG\\$ = 0.8814 XW\\$ (1.8425)</p> <p>$-507.2356 \left(\frac{PW\\$}{PX\\$} \right)$ (2.1863)</p> <p>+0.6487 $XG\\$_{-1} + 573.9412$ (2.9657) (2.2680)</p> <p>[0.94; 54.2; 1097.1; 1.68]</p> <p>13c. $L.XG\\$ = 0.8101 L.XW\\$ + 2.0798$ (11.9408) (5.6901)</p> <p>[0.90; 0.1; 7.0; 0.87]</p> <p>14. $XG\\$*B = 0.9907 XG\\$* - 6.9675$ (102.0817) (0.9932)</p> <p>[0.99; 11.3; 1535.0; 1.19]</p> <p>15. $XS\\$* = 0.1013 XG\\$*$ (1.9782)</p> <p>+0.8947 $XS\\$*_{-1} - 20.1098$ (9.0629) (0.8214)</p> <p>[0.95; 37.8; 487.6; 0.91]</p> <p>16. $X\\$*B = 1.5233 XG\\$*B - 102.3077$ (16.6900) (1.5800)</p> <p>[0.95; 105.6; 2088.0; 0.45]</p>
<p>II. <i>Consumption</i></p>	
<p>5. $\frac{CPF}{N} = 0.0500 \left(\frac{YMT-TX}{N} \right)$ (2.5372)</p> <p>+0.6785 $\left(\frac{CPF}{N} \right)_{-1} + 227.50$ (5.9825) (3.3488)</p> <p>[0.99; 5.1; 1077.2; 1.50]</p> <p>6. $\frac{CPNF}{N} = 0.2097 \left(\frac{YNT-TX}{N} \right)$ (3.0342)</p> <p>+187.90 $\left(\frac{PA}{PNA} \right)$ (1.4669)</p> <p>+0.6124 $\left(\frac{CPNF}{N} \right)_{-1}$ (4.2166)</p> <p>-310.10 (2.0253)</p> <p>[0.98; 37.8; 1082.9; 2.21]</p> <p>7. $CG = 0.8928 TX - 451.17$ (24.0870) (0.9224)</p> <p>[0.97; 690.0; 16990.0; 1.33]</p>	
<p>III. <i>Investment</i></p>	
<p>8. $IF = 0.1285 YDT_{-1} + 0.9740 M_{5-9}$ (6.1433) (8.3327)</p> <p>$-7268.04 \left(\frac{PA}{PNA} \right) + 1561.53$ (2.2110) (0.4259)</p> <p>[0.99; 955.7; 33140.0; 1.33]</p>	
<p>IV. <i>Exports</i></p>	
<p>9. $X_{0+1}\\$ = 9.6441 XW_{0+1}\\$ (6.3873)</p> <p>$-233.8866 \left(\frac{PX_{0+1}\\$S}{PW_{0+1}\\$} \right)$ (1.8848)</p> <p>+231.8233 (1.3715)</p> <p>[0.83; 36.2; 396.4; 1.48]</p>	

V. Imports

- Eq.
No.
- 17a. $M_{0+1}\$ = 0.0106 CPS$
(6.5821)
 $-91.2548 \left(\frac{PM_{0+1}\$S \cdot E}{P} \right)$
(4.8282)
 $+120.4358$
(6.5090)
[0.76; 6.5; 54.3; 1.79]
- 17b. $M_{0+1}\$ = 0.0077 CP\$ + 34.8825$
(3.2005) (4.0656)
[0.38; 10.4; 54.3; 1.16]
18. $M_{2+4}\$ = 0.0219 YNA\$ - 38.3373$
(13.5969) (6.6024)
[0.92; 8.6; 97.8; 0.61]
- 19a. $M_3\$ = 0.0159 YDS$
(17.5131)
 $-8.5979 \left(\frac{PM_3\$S \cdot E}{P} \right)$
(0.8079)
 $+10.8315$
(0.8748)
[0.95; 5.9; 121.8; 3.56]
- 19b. $M_3\$ = 0.0158 YDS + 1.15317$
(17.8015) (0.3399)
[0.95; 5.8; 121.8; 3.45]
- 20a. $M_{5-9}\$ = 0.1748 YD\$$
(18.5108)
 $-1157.8154 \left(\frac{PM_{5-9}\$O \cdot E}{P} \right)$
(5.3661)
 $+1062.9172$
(5.0291)
[0.96; 60.7; 1140.2; 1.60]
- 20b. $M_{5-9}\$ = 0.1645 YDS - 42.7976$
(10.2966) (0.5267)
[0.88; 105.0; 1140.2; 0.48]
- 21a. $MG\$ = 1.1267 M_{0-9}\$ - 167.2791$
(32.3474) (4.8717)
[0.99; 48.4; 1505.7; 0.24]
- 21b. $L.MG = 1.3768 L.YD + 0.2549$
(22.8294) (0.6159)
[0.97; 0.1; 190.4; 0.56]

Eq.

No.

22. $MG\$*B = 0.9081 MG\$* - 6.5022$
(96.9710) (0.6715)
[0.99; 17.1; 1880.0; 1.69]
23. $M\$ = 1.0665 MG\$ + 5.4387$
(60.4797) (0.3223)
[0.99; 27.8; 1551.0; 1.80]
24. $M\$*B = 1.229 MG\$*FB - 19.9967$
(191.3767) (3.3533)
[0.99; 10.6; 2 264.0; 1.09]

VI. Prices

25. $PA = -1.0907 \left(\frac{YA_{-1}}{YNA} \right)$
(3.1197)
 $+0.2449 (PX\$ \cdot E)$
(1.0245)
 $+0.5044 \left(\frac{L}{I \cdot YD} \right) + 0.7324$
(2.2672) (2.7287)
[0.82; 0.05; 1.34; 1.79]
26. $PNA = 0.2348 PA + 0.7713 PNA_{-1}$
(2.9101) (5.6883)
 -0.0152
(0.1645)
[0.88; 0.03; 1.10; 2.2]
27. $P = 0.2930 PA + 0.6541 PNA$
(24.6112) (37.1180)
 $+0.0510$
(5.1691)
[0.99; 0.003; 1.16; 1.90]
28. $PX\$ = 0.7293 PXO_{-9}\S
(16.1474)
 $+0.6368 PX\$_{-1} - 0.3915$
(6.1644) (4.1350)
[0.96; 0.02; 1.40; 2.10]
29. $PM\$ = 0.4599 PMO_{-9}\S
(10.0659)
 $+1.0652 PM\$_{-1} - 0.5037$
(9.5233) (3.9295)
[0.92; 0.03; 1.36; 1.70]
- VII. Other equations and identities
30. $YF\$* = 0.9954 YF\$*B + 0.1368$
(98.0698) (1.3831)

Eq.
No.

- [0.99; 0.4; 19.6; 1.80]
31. $TX = 0.1331 YD - 1056.64$
(34.1233) (2.5427)
- [0.99; 542.2; 20980.0; 1.40]
32. $YD = YA + YNA$
33. $YNA = \frac{YNAC \cdot UC}{100}$
34. $YDT = YD + X \left(\frac{1}{PM\$ \cdot E} - \frac{1}{PX\$ \cdot E} \right) + \frac{TF\$ \cdot B \cdot ER}{PM\$ \cdot E}$
35. $YNT = YDT - \frac{YE\$ \cdot ER}{PM\$ \cdot E}$
36. $XO_{-9}\$ = XO_{+1}\$ + X_{2+4}\$ + X_3\$ + X_{5-9}\$$

Eq.
No.

37. $M_{0-9}\$ = M_{0+1}\$ + M_{2+4}\$ + M_3\$ + M_{5-9}\$$
38. $M_{2-9} = (M_{2+4}\$ + M_3\$ + M_{5-9}\$) ER70$
- Exogenous variables:*
 $XW_{0+1}\$, XW_{2+4}\$, XW_3\$, XW_{5-9}\$, PW_{0+1}\$, PW_{2+4}\$, PXD_{5-9}\$, PX_{0+1}\$, PX_{2+4}\$, PX_{5-9}\$, PX_{0-9}\$, PM_{0+1}\$, PM_3\$, PM_{5-9}\$, PM_{0-9}\$, E, ER, N, TIME, DUA, TFP\$ \cdot B, L, YF\$ \cdot B.$