

## CONTENTS

ABBREVIATIONS AND SYMBOLS.....	vii
ACKNOWLEDGEMENTS.....	ix
DISCLAIMER.....	x
FOREWORD BY THE DIRECTOR-GENERAL.....	xi
EXECUTIVE SUMMARY.....	xiii
<b>I THE TRADE SITUATION IN 2007.....</b>	<b>1</b>
A INTRODUCTION.....	1
B REAL MERCHANDISE TRADE AND OUTPUT DEVELOPMENTS IN 2007.....	3
C NOMINAL TRADE DEVELOPMENTS IN 2007.....	5
<b>II TRADE IN A GLOBALIZING WORLD.....</b>	<b>13</b>
A INTRODUCTION.....	13
B GLOBALIZATION AND TRADE.....	15
1. Trends in globalization.....	15
2. Main drivers of globalization.....	20
3. Public attitudes to globalization.....	21
C THE CAUSES OF TRADE.....	27
1. The traditional approach: gains from specialization.....	28
2. “New” trade theory: gains from economies of scale, product variety and increased competition.....	40
3. Recent developments: productivity gains.....	53
4. Dynamic gains.....	64
5. Conclusions.....	74
D TRADE, THE LOCATION OF PRODUCTION AND THE INDUSTRIAL ORGANIZATION OF FIRMS.....	81
1. Falling international trade costs.....	81
2. Geographical concentration.....	88
3. International fragmentation of production.....	98
4. Conclusions.....	118
Technical Appendix.....	119
E DISTRIBUTIONAL CONSEQUENCES OF TRADE.....	123
1. Trade and inequality.....	123
2. Trade and structural adjustment.....	134
3. Trade and poverty.....	139
4. Conclusions.....	144
F POLICY IMPLICATIONS OF GLOBAL INTEGRATION AND THE WTO.....	147
1. Introduction.....	147
2. Addressing trade costs and supply constraints.....	147
3. Dealing with the social consequences of liberalization.....	151
4. Do all countries gain from trade? The role of technology.....	156
5. Conclusions.....	160
BIBLIOGRAPHY.....	163
TECHNICAL NOTES.....	175

## LIST OF TABLES, CHARTS AND BOXES

### I THE TRADE SITUATION IN 2007

#### Tables

Table 1	GDP and merchandise trade by region, 2005-07 .....	4
Table 2	World exports of merchandise and commercial services, 2007 .....	7
Table 3	World exports of commercial services trade by major category, 2007 .....	9

#### Charts

Chart 1	Real GDP and trade growth of OECD countries, 2006-07 .....	2
Chart 2	Growth in the volume of world merchandise trade and GDP, 1997-2007 .....	3
Chart 3	Real merchandise trade growth by region, 2007 .....	5
Chart 4	Export prices of selected primary products, 2005-07 .....	6
Chart 5	Dollar exchange rates of selected major currencies, 2001-07 .....	7

#### Appendix Tables

App. Table 1	World merchandise trade by region and selected country, 2007 .....	11
App. Table 2	World exports of commercial services by region and selected country, 2007 .....	12

### II TRADE IN A GLOBALIZING WORLD

#### B GLOBALIZATION AND TRADE

#### Tables

Table 1	Globalization waves in the 19 <sup>th</sup> and 20 <sup>th</sup> century .....	15
Table 2	Globalization chronology .....	22

#### Charts

Chart 1	Share of major exporters in world merchandise trade, 1953-2006 .....	16
Chart 2	Share of industrial countries in world manufactures exports by product group, 1955-2006 .....	18
Chart 3	Net immigration into developed countries, 1960-2006 .....	20

#### Appendix Charts

App. Chart 1	Share of industrial countries in world exports by major product group, 1955-2006 .....	25
App. Chart 2	Share of developing economies in world manufactures exports by product group, 1983-2006 .....	25
App. Chart 3	Selected financial flows to developing countries, 1990-2006 .....	26

**C CAUSES OF TRADE****Tables**

Table 3	Grubel-Lloyd indices of intra-industry trade, 2006 .....	41
Table 4	Fontagné-Freudenberg indices of intra- and inter-industry trade of Germany, top ten trading partners per type of trade .....	42
Table 5	Share of exporting firms in total number of manufacturing firms .....	53
Table 6	Per cent of exports accounted for by largest exporters .....	54
Table 7	Trade theories .....	75

**Charts**

Chart 4	Intra-industry trade and similarity in economic size, selected trading partners, Germany, 2004 .....	43
Chart 5	Increasing returns to scale and average costs of production .....	44
Chart 6	Trade patterns with country differences in resources and a monopolistically competitive sector .....	47
Chart 7	World GDP per capita and world exports, 1960-2004 .....	64
Chart 8	Growth in GDP per capita and in exports .....	65

**Boxes**

Box 1	A numerical presentation of the Ricardian model .....	29
Box 2	Ricardian models with more goods and more countries .....	31
Box 3	Tasks, services and intermediate goods .....	37
Box 4	Economies of scale at Wal-Mart .....	44
Box 5	Gains from market integration .....	45
Box 6	The gravity equation .....	51
Box 7	Using firm-level data to analyze export behaviour .....	55
Box 8	Growth theory in a closed economy .....	65
Box 9	Success stories of export-led growth .....	73

**Box Tables & Charts**

Box 5 Table	Gains from market integration .....	46
Box 6 Chart A	Bilateral trade of Spain as a function of GDP of both trading partners and as a function of geographical distance, 2006 .....	51
Box 6 Chart B	Bilateral trade of Spain as a function of geographical distance as well as other trade barriers, 2006 .....	51
Box 9 Table	Changes in the product structure of Chinese Taipei's merchandise exports, 1963-2003 .....	74

**D TRADE, THE LOCATION OF PRODUCTION  
AND THE INDUSTRIAL ORGANIZATION OF FIRMS****Tables**

Table 8	German real air transport prices by destination, 1954-1999 .....	86
Table 9	Source of input goods or services .....	99
Table 10	Worldwide offshoring of goods and services .....	102
Table 11	Goods and service offshoring by country, 2000 .....	103
Table 12	Vertical specialization (VS) and its contribution to export growth .....	104
Table 13	Industries that offshore most at the world level .....	105
Table 14	A cross-country comparison of some determinants of offshoring costs .....	111

**Charts**

Chart 9	Tramp price index .....	84
Chart 10	Worldwide air revenue per ton-km .....	85
Chart 11	Prices for domestic and foreign phone calls of Germany, 1949-2007 .....	87
Chart 12	Share of manufacturing in domestic production of core and periphery .....	95
Chart 13	Trends in world trade of total merchandise, intermediate goods and other commercial services, 1988-2006 .....	102
Chart 14	Vertical integration or outsourcing options for a headquarter-intensive firm located in the North ...	109
Chart 15	Per cent of financial institutions with offshoring operations .....	114

**Boxes**

Box 10	The importance of intermediate goods in manufacturing .....	89
Box 11	The home market effect .....	91
Box 12	Geographic concentration: From Bangalore to Wall Street .....	92
Box 13	Is there a core-periphery story? .....	97
Box 14	Alternative measures of international outsourcing .....	100
Box 15	Implications for developed and developing countries of financial services offshoring .....	117

**Box Tables & Charts**

Box 10 Table	Share of intermediate manufactures by sector, 2000 .....	90
Box 10 Chart	Share of manufactured intermediates in output .....	90
Box 11 Chart	Country 1's share of global manufacturing production .....	91
Box 13 Table	"Core" share of global manufacturing output, 1976-2002 .....	97

**E DISTRIBUTIONAL CONSEQUENCES OF TRADE****Tables**

Table 15	Evolution of Gini coefficients by region, 1970-2000 .....	126
Table 16	Percentage of population below US\$1 (PPP) per day .....	139

**Boxes**

Box 16	Measuring inequality .....	127
Box 17	Inequality: how much is technology, how much is trade? .....	129

## ABBREVIATIONS AND SYMBOLS

AMD	Advanced Micro Devices
BEA	Bureau of Economic Analysis
BIS	Bank for International Settlements
BOP	Balance of Payment
BPO	business process outsourcing
CAFTA	Central American Free Trade Agreement
CEO	Chief Executive Officer
CEP	Centre for Economic Performance
CEPAL	Comision Economica para America Latina y el Caribe
CEPII	Centre d'Etudes prospectives et d'Informations Internationales
CEPR	Center for Economic Policy Research
CES	constant elasticity of substitution
CGE	Computable General Equilibrium
CIA	Central Intelligence Agency
CIS	Commonwealth of Independent States
CMEA	Council of Mutual Economic Assistance
CORE	Centre for Operations Research and Econometrics
CRS	constant returns to scale
EC	European Community
EEC	European Economic Community
EFTA	European Free Trade Area
EU	European Union
FAME	forecasting analysis and modeling environment
FDI	Foreign Direct Investment
FTA	Free Trade Agreement
GATS	General Agreement on Trade in Services
GATT	General Agreement on Tariff and Trade
GDP	Gross Domestic Product
GNP	Gross National Product
GTAP	Global Trade Analysis Project
ICT	Information and Communication Technology
IF	Integrated Framework
IFPRI	International Food Policy Research Institute
IMF	International Monetary Fund
IPRs	Intellectual Property Rights
IRS	increasing returns to scale
ISCED	International Standard Classification of Education
IT	Information Technology
ITC	International Trade Center
ITU	International Telecommunications Union
LDCs	Least-Developed Countries
MERCOSUR	Southern Common Market
NAFTA	North American Free Trade Agreement
NES	National Election Studies
NESPD	New Earnings Survey Panel Dataset
NIEs	Newly Industrialized Economies
NTBs	Non-tariff barriers
OECD	Organization for Economic Co-operation and Development
OEEC	Organization for European Economic Cooperation
OPEC	Organization of the Petroleum Exporting Countries
OSAs	Open Skies Agreements
PPP	purchasing power parity

R&D	Research and Development
RSIE	Research Seminar in International Economics
S&D	Special and differential treatment
SITC	Standard International Trade Classification
SOC	Standard Occupational Classification
SPS	Sanitary and Phytosanitary Measures
SSRN	Social Science Research Network
STDF	Standards and Trade Development Facility
STP	Software Technology Parks
TAA	Trade Adjustment Assistance
TFP	total factor productivity
UK	United Kingdom
UNCTAD	United Nations Conference on Trade and Development
US	United States of America
UNDP	United Nations Development Programme
USSR	Union of Socialist Soviet Republic
VAT	Value-Added Tax
WCO	World Customs Organization
WWI	First World War
WWII	Second World War

The following symbols are used in this publication:

...	not available
0	figure is zero or became zero due to rounding
-	not applicable
\$	United States dollars
€	euro
£	UK pound