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The Lebanese Economy: Issues in its Post-War Development, 1992-2004

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Abstract

In 2005, Lebanon is turning a new page on its politics, which should better accommodate sound economics and proper governance. The purpose of this paper is to draw a few lessons from the post-war experience of 1992-2004, in the hope that it can shed some useful light on the future direction of economic policy. The paper begins by outlining the pitfalls of economic reconstruction, and then discusses the drawbacks of high deficits, debt, and overvalued exchange rates. This is followed by a political economy analysis of the failures of the government and financial sectors. The conclusion from the paper is that reform policies should focus more on the real sector of the economy, and should take advantage of the country's two fundamental assets, namely, its geography and its human capital.

Key Words: Economic Reconstruction; Budget Deficits; Public Debt; Exchange Rates; Lebanon.

I – Introduction

In its recent history, the Lebanese economy represents a case of missed opportunities. Its first opportunity for industrial take off, centered around a budding silk industry in Mount Lebanon, was defeated in the 1880s by international economics through steep reductions in the price of silk (due to larger supplies from East Asia). What followed was a period of economic slowdown and intense emigration that saw more than 250,000 people leave the country during 1890-1914. Not to be outlasted, a second opportunity later emerged. Mainly between 1926-44, it was driven by infrastructure developments (by the French mandatory power), tariff protection, and expenditures by the Allied forces. It also had a diversified structure with some political leeway as an interest group. However, strong local politics overruled nascent economic possibilities implicit in this second opportunity, in that the political elite opted in 1948 to turn Lebanon instead into a center of commerce and finance.² Although this model did not fare badly – real GDP growth averaged 6.2% during 1948-74 and even industry increased its share of GDP from 9% to 17% economic prosperity was not deep and wide enough to ease social cleavages and override political tensions.³ As a result, domestic (and

¹ See Owens (1981).

See Gaspard (2004).

³ See Picard (1996).

regional) politics ditched economic potential, and a bloody civil war ensued.

When the civil war breathlessly finished, the country had lost by then almost half of its national income. The imperatives of reconstruction and recovery gave economics a chance to tame politics; and the economic model that was put forth for that purpose was an improved version of the model that the country's short memory knew best: "Singapore of the Middle East". The aim was to refashion Lebanon as a center of finance in the Middle East – in as much as Singapore is that for South-East Asia – although the identification missed on two glaring dissimilarities: Singapore emerged as an industrial and manufacturing base in the 1960s and 1970s before it graduated to become a mighty financial center, and it also had strong national institutions and central government that glued society together.

What the model also missed is that the country's civil war had its toll on this presumed comparative advantage, and any head-start or unique features that the economy had enjoyed in the pre-war period was dissipated. This was clearly reflected in the inability of the economy to sustain the recovery mid-through the post-war period, despite considerable infusion of public expenditures. Naturally, the combination of ensuing budget deficits and low growth led to high debt, whose management still

⁴ See Denoeux and Springborg (1998).

dominates the political economy of Lebanon to this day. Politics also poked its ugly head, clashing with economics and depriving the economy of needed reforms to deal with the debt crisis and with bringing back momentum to the recovery. Surely, a third opportunity was also missed.

In 2005, Lebanon is turning a new page on its politics, which should better accommodate sound economics and proper governance. The purpose of this paper is to draw a few economic lessons from the post-war experience of 1992-2004, in the hope that it can shed some useful light on the direction of economic policy in Lebanon's "Third Republic". The paper begins by outlining the pitfalls of economic reconstruction, and then discusses the drawbacks of high deficits, debt, and overvalued exchange rates. This is followed by a political economy analysis of the failures of the government and financial sectors. The conclusion from the paper is that reform policies should focus more on the real sector of the economy, and should take advantage of the country's two fundamental assets, namely, its geography and its human capital.

II - Economic Reconstruction and Recovery

After more than sixteen years, the Lebanese civil war ended in 1991 with all the characteristic stylized facts: destruction of much capital stock, disruption of the social and economic order, and substitution of financial

and human capital away from the domestic economy.⁵ Having been fought entirely on Lebanese territory, the war had also undermined the state and its capability. A weak state would naturally imply that the tasks of economic reconstruction must rely more on market mechanisms. But that is something that would not have been new to Lebanon since its economy had always been a model of laissez faire – however misguided – in the region and beyond.⁶ What should have been new and essential is a strong state, needed to develop proper governing institutions and secure political cohesion in a country that is liable to rampant corruption and to fractious confessionalism.⁷ But that was not meant to be, for at least three reasons. First, the Taif Accord that ended the war and ushered in the "Second Republic" stripped executive authority from the Maronite presidency, and as a result left the elites of that community dissatisfied and in nascent but bitter struggle with those of the other two major communities (the Sunnis and the Shias) for the spoils of office.⁸ Second, the Accord granted Syria a temporary stay in the country to secure the

See Collier (1999) for more on the stylized facts. By 1991, the cost of damage to the physical capital stock had reached close to \$25 billion, in addition to the emigration of 200,000 skilled persons and flight of financial capital of more than \$10 billion; see Eken et. al (1995).

On the travails of Lebanon's laissez faire model, see the excellent analysis by Gaspard (2004).

On a scale from -2.5 (most corrupt) to 2.5 (least corrupt), the World Bank estimates that between 1996-2004 Lebanon's index averaged -0.4; see Kaufmann et. al (2005). Also, on a score from 0 (most corrupt) to 10 (least corrupt), Transparency International gave Lebanon a score of 3.1 in 2005; see ww.transparency.org.

⁸ See Picard (1996) and Salem (1991).

peace, but they understood that to mean an extended mandate over the country and the control of its internal affairs. Third, external threat to security by Israel continued to be ever-present – although its intensity was curtailed after the liberation of the South in 2000. In short, political rehabilitation was compromised by internal discord and external concerns. And that proved deleterious, since it is political rehabilitation that should have underpinned economic reconstruction and helped to transform it into meaningful recovery and sustained development.

But what was the program of economic reconstruction? The program with the most currency initially was *Horizon 2000*. It was a blue-print for infrastructure development lasting for ten years (1993-2003) and costing \$12.9 billion (with \$7 billion projected to be financed externally, 17% of which from grants and 83% from borrowing). It aimed at laying the ground for the country to regain and advance its position as a bridge between Europe and Arabia, with renewed emphasis on the role of the service sector, namely tourism, finance, and information technology. But it was also a plan that was devised by two construction companies, the local *Dar-Al-Handasah* and the International *Bechtel*, and not surprisingly short on the crucial matters of institutional development and national governance that are now considered to furnish the necessary if not

The cost was later increased to \$17.7 billion; see Republic of Lebanon (1992).

See International Bechtel (1992) and Kisirwani (1998).

sufficient conditions for sustained growth.¹¹ At any rate, *Horizon 2000* was adopted by the post-war government headed by the late Prime Minister Harriri in 1992, but soon its priorities began to fade as deficits started to cripple government finances from 1997-1998 onwards.¹²

What derailed the financing of the program was a combination of factors. The civil war did not bring any fiscal peace dividends – in fact it added to the fiscal burden by the cost of rebuilding the army and the police. In addition, few of the promised grants came the country's way – no more than \$300 million; and, more important, the country elected initially not to resort to official concessional financing (bilateral and multilateral), partly because it did not want the reconstruction program to be hostage to foreign conditionality. As a result, deficits were financed by internal and external (private) borrowing at increasing rates, and with revenue not catching up, they ended saddling the economy with spiraling debt and its burdens. Even with the scaling down of the program, though, total public investments were close to \$9 billion by 2004. But what is curious is that, given that the jewel of reconstruction – downtown Beirut – was financed through the private company *Solidere*, there was not much to

See Rodrik and Subramanian (2003) and Rodrik (2000) for the primacy and workings of institutions.

Harriri himself was a major contractor; and the program was criticized early on that it centered on "building stones not people" (binaa alhajar ma albashar).

The most salient expenditures were on a new airport, an extension of the fixed telephone system, and a network of new roads especially to the South.

show off in actual infrastructure developments for those sum of expenditures!

Perhaps more important, the program was characterised by a dearth of economic policy initiatives. The economic policy that really defined the post-war agenda was the use of the exchange rate as the nominal anchor for monetary policy and the curtailment of deficit monetization. And here the exchange rate was deliberately (and rightly) undervalued at first so as to entice capital back into the country by the prospect of future appreciation, but it has since appreciated to reach overvalued real levels.¹⁴ Though this policy achieved monetary stability, there were other crucial policy choices that should have deserved more attention by the government and aimed directly at the real sector and its operating environment - be it industrial, commercial, tax, public sector, or employment policies.¹⁵ Of course, it is true that one can not ask too much from a beleaguered post-war government and clutter its policy agenda with increasing demands. But it is also true that the government dug itself in a deep hole by its deficit financing and exchange rate policies and in the process was paralyzed to act on vital policy fronts. However, a belated recognition of this trap was acknowledged by the government, and in

⁴ See Bolbol (1999) and the more cautious conclusion in Bhattacharya (2003).

See Haughton (1998) for more on the pace and sequencing of these policy measures. One essential feature of these measures is that they require *patience*, which calls for caution not to inflate expectations in the immediate post-war period.

consequence it convened in 2002 the Paris II conference to address the debt problem.

Paris II perhaps represents the second major economic program of the post-war period. It was largely a product of Harrir's efforts and reputation, and it gathered the Heads of State of Lebanon's friends from Europe and the Gulf. Its upshot was a pledge to provide \$4.4 billion in concessional funds (by the end of 2004, almost \$2.9 billion was provided), in addition to an agreement with the local commercial banks to forgo interest on government debt equal to \$4 billion. 16 Paris II stipulated, however, that Lebanon should start to act seriously on economic reform. And prime among these reforms is privatization, especially Electricite du Liban (EDL) which has insatiably swallowed an average of \$400 million in annual subsidies.¹⁷ Paris II succeeded in easing the financing costs of the government since interest rates on the debt fell by more than 4%; however, political bickering among the country's power brokers froze action on economic reforms and consequently the benefits from Paris II could not be locked in to start the debt on a sustainable path. The only bright spot that marked any reform efforts was instating in 2002 a system

See Economist Intelligence Unit (2004).

The losses at EDL are a product of low tariffs relative to operating costs, theft and non collection, and bad governance. It is also estimated that a \$10 increase in the international price of oil would worsen the fiscal deficit by 1.1% of GDP – roughly one half would come from higher transfers to EDL while the other half from lower excise tax revenue due to the cap on gasoline prices; see IMF (2004a).

of value-added taxation (VAT) that nudged up the tax revenues to GDP ratio by at least 3%.

But this can change. The death of Prime Minister Harriri in 2005 have led to a spring of changes in the country, most notably the withdrawal of Syrian armed forces. As a result, Lebanon is now embarking on its "Third Republic", with presumably more independence in its decision making, so any new economic course should heed the obvious lessons from Paris II and before. These can be broadly encapsulated by the need to have a new political consensus that would underlie economic reforms and, more important, institutional reforms. Also, economic reforms should go beyond the mere objectives of debt reduction and privatization – after all there are only two *public utilities* available for privatization, EDL and telecommunications¹⁸ – to encompass aspects that upgrade the quality of the investment and business environment in the country.¹⁹

Given the outline of the post-war story discussed above, what do the numbers say about the country's economic performance during that period? Table (1) shows that reconstruction created an initial spurt of growth, averaging 5.3% between 1992-1998, but did not manage to translate it to robust recovery as growth afterwards averaged 2% only –

Not counting Middle East Airlines, Intra Bank, and Casino du Liban, which are all actually owned by the central bank (Banque du Liban).

For more on these aspects, see World Bank (2005) where a survey on *Doing Business* ranked Lebanon 95th among 155 countries.

with a noticeable increase in 2003-2004. The drag on the economy's resources caused by the high budget deficits – especially between 1994-2002 as can be seen in table (2) - plus the overvalued exchange and interest rates were no doubt contributing factors in the slowdown. However, on the positive side, anchoring monetary stability to the exchange rate subdued inflation and brought it down to low single digits. Overall, growth rates in the post-war period averaged less than those of the 1948-1974 period – 3.8% against 6.2% – possibly due to a lower longrun desired capital stock in the post-war period because of higher country risk relative to that of the pre-war situation.²⁰ Although it took the postwar economy only up to 1998 to recoup its 1974 real per-capita income at close to \$1300, this level nevertheless stagnated between 1999-2002 and so did Lebanon's Human Development Index.²¹ Not surprisingly, unemployment increased by 1% if not more.²² If deficits and debt were a big part of the explanation behind the post-war performance, then how did they exactly behave?

III – Deficits and Public Debt

Budget deficits represent net borrowing requirements by the government, and as ratio of GDP their behavior is depicted in table (2). Deficit ratios

Collier (1998) refers to this as "war overhang".

In 1991, real per-capita income in 1974 prices was \$560.

Tabbarah (2002) argues that unemployment increased by more than 5%.

were mostly on an upward trend up to 2000 when they exceeded 20%, but since then have fallen to reach about 10% in 2004 – a behavior that was negatively *correlated* with GDP growth as noted earlier. There are two adjustments to conventional deficits reported in table (2).²³ The first adjustment is the primary deficit, which is equal to conventional deficits minus interest payments on the debt, and thus represents a better indicator of discretionary fiscal policy. As a result, fiscal policy was relatively expansionary till 2000, when the primary balance remained in deficit and the expenditure (to GDP) ratio reached more than 40% (see table (3)). However, from 2001 onwards, the primary balance turned into a surplus buoyed by lower expenditure ratios and higher tax revenues driven by the VAT (which now contributes close to 25% of revenues).²⁴ What is interesting is the negative correlation between the resulting fiscal stance and GDP growth rates. This can be readily explained, however, by the fact that deficits crowded out public investments and coincided with higher interest rates till 2001-02, but later lower interest rates not only eased public finances but also caused a pick up in private investments.

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There are two other adjustments: the structural deficit and the full-employment deficit. The first measures deficits independent of the business cycle because of the swings in welfare and unemployment payments that these cycles generate; and the second measures deficit at the long-run, potential level of output. Both adjustments do not yet apply to Lebanon, because of the absence of a welfare system in the country and the difficulty in ascertaining long-run GDP in the limited post-war period.

The second notable source of revenue is income from the two mobile telephone operators, which bring in close to 20% of government income at more than \$900 million a year.

The second adjustment relates to operational deficits, which subtracts from conventional deficits the inflation component implicit in nominal interest rates. If actual inflation exceeds nominal interest rates (negative real interest rates), then operational deficits are smaller than primary deficits and the real value of the debt is reduced, as had been the case in Lebanon in 1992-1993 only. But since then, it seems that actual inflation has become increasingly aligned with expected inflation, and as a result *surprise* inflation has a chance of creating a wedge between the two and rendering a reduction in the real value of the debt quite possible. This is of course something that does not recommend itself for economic stability's sake, but it is noteworthy that operational deficits have remained very close to conventional deficits with inflationary expectations not registering a significant component in nominal interest rates.

Given the state of escalating deficits throughout most of the post-war period, could benign monetization have been possible to slow down the rise in deficit ratios? The answer to this question depends on the fact that the amount of seigniorage revenue that the government can obtain from non-inflationary monetization is determined by: the demand for monetary base, the rate of real GDP growth, and the income elasticity of real money demand. Assuming that the income elasticity of real money demand is unity, and that in 1992 the ratio of base money to GDP was 0.16 and the rate of GDP growth 4.5%, then the government could have generated 0.72 of GDP in seigniorage without igniting inflation or flight from the

currency. In fact, during most of the 1992-1999 period as table (4) shows, desired monetization was above actual monetization and the government lost an opportunity – however modest – to control the rise in deficits. But when the government started to monetize heavily especially in 2000-01, it was too late by then because the economy had run out of steam, and the resulting decline in real money demand meant that the high actual monetization ratios translated to loss of international reserves.

Rising deficits would naturally lead to increasing debt which, if not checked, could render debt dynamics inherently unstable. We can see this by analyzing the debt dynamics equation, which can be derived as follows. The excess of expenditures over tax revenues has to be financed from either borrowing or money creation:

(1)
$$dB + dM = G - T + iB$$

where B is net debt, G is government expenditures net of interest payments iB, T is tax revenue, and M is money stock. Since d(B/Y)/(B/Y) = dB/B - dY/Y, where Y is nominal GDP, equation (1) becomes:

(2)
$$d(B/Y) = P/Y + (i-dY/Y) B/Y - dM/Y$$

where G – T is the primary deficit P. Since $i = r + \pi$ and $dY/Y = g + \pi$, where π and g are inflation and real GDP growth rates respectively, equation (2) will be expressed as:

(3)
$$d(B/Y) = P/Y + (r-g)B/Y - dM/Y$$

Equation (3) traces the time path of the debt ratio B/Y, and the sufficient condition for its stability is g>r.²⁵ In other words, the debt ratio will grow indefinitely as long as primary deficits are not covered by seigniorage and interest paid on the debt is larger than the growth rate of GDP; alternatively, the debt ratio will converge to a steady-state level if interest is smaller than the growth rate, and it will do so sooner and at a lower level if higher growth generates enough tax revenues to quickly erase the primary deficit. Table (5) shows that the debt ratio kept increasing between 1993-2003, driven by primary deficits and, more important, violation of the stability condition. Only in 2004 did the ratio fall, when lower interest rates due to Paris II helped satisfy the stability condition. Debt sustainability, hence, meant that Lebanon could not pursue indefinitely its set of budgetary policies. Both tax policies – the VAT – and financing schemes had to be altered to bring the debt ratio on a more sustainable path.

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The Sufficient condition for stability is : d(d(B/Y)) / d(B/Y) = r-g < o = r < g. The solvency condition – the ex-ante requirement that future primary surpluses be equal in present–value terms to the outstanding stock of net debt – is only a necessary condition for stability since it can be met ex-post through debt restructuring, monitization, or repudiation.

The increase in total debt masked a differentiation in the trends of its components. The domestic debt ratio peaked in 2001 at 112% to fall afterwards to 89% in 2004, whereas the foreign debt ratio rose consistently to reach 93%. The simple reason for the switch in debt composition is clear form table (6): lower interest rates on foreign debt. The government tried as part of its better debt management to issue T-bills with longerterm maturities (one-to three-year issues), so as to avoid the risk of debt rollover, but that has proven not to be cheap – costing 100 basis points for each additional year.²⁶ Even interest on foreign debt began exhibiting a larger risk premium, since between 1997 and 2002 interest rates on Eurobonds increased from 6.2% to 9.3%. And it is this of course that was behind the Paris II conference, in the aim of increasing the share of official sources in foreign debt and, as a result, reducing the cost of servicing it (see table (7)). However, foreign debt is a double-edged "sword", requiring in counterpart the availability of foreign exchange and claiming a part of the latter for its servicing needs. Although Lebanon stands a remote chance of experiencing an episode of illiquidity with a foreign reserves to short-term debt ratio of more than 200%, one can not rule out however an episode of insolvency (in the medium term) given the high ratios of debt to GDP and debt to exports that are in excess of 90% and 1000% respectively.²⁷ And no doubt, political instability and tight

²⁶ Currently, T-bills with maturities of one year and more constitute 75% of all T-bills issues; see IMF (2004a).

On the threshold conditions for episodes of illiquidty and insolvency, see Manasse and Roubini (2005).

monetary conditions in international financial markets could only aggravate both problems – illiquidity and insolvency – especially now that the benefits from Paris II seem to be exhausted. The effects of these problems could potentially be huge, reverberating throughout the domestic banking system and creating havoc in the economy, since commercial banks hold more than 50% of the outstanding foreign debt.

What emerges from the above analysis are three facts. First, budget deficits crowded out mostly public investments, but the high interest rates that the economy witnessed slowed down private investments as well. Benign monetization could have retarded the rise in budget deficits initially, but conservative central banking practice precluded that. Second, not resorting to more official, concessional financing early on - for reasons that presumably have to do with an inflated image and reputation of Lebanon – contributed to a viscous cycle of higher interest payments, rising deficits, and unsustainable debt. Third, excess liquidity in commercial banks coupled with attractive yields on Lebanese Eurobonds have "localized" most of the foreign debt. Any possible default on the debt will have as a result a more damaging effect on the economy than if the debt had been owned by outside investors. Overall, the casualty of these developments has been economic growth, since economic management in Lebanon had turned into debt management in course and in objective.

IV - Interest and Exchange Rates

It was evident that high interest payments were feeding the deficit and the rising debt, reaching close to 49% of expenditures in 2001 before dropping to 38% in 2004. It is inevitable, though, that debt ratios rise after wars, but is this also true of interest rates? Interest rates (on two-year T-bills) averaged 14.9% during the 1994-04 period of high deficit ratios, whereas inflation and GDP growth (as a proxy for real interest) rates averaged 4.1% and 3.8% respectively. As a result, it is difficult to justify the domestic currency risk premium of more than 6% that was priced into domestic interest rates, for two reasons. First, the central bank's hard commitment to fixed exchange rates, with a decent chest of international reserves at its disposal to support it, helped prevent possible devaluations and any consequent loss in the real value of domestic debt. Second, the much lower interest paid on foreign debt, since the average difference between *real* interest rates on domestic and foreign debt exceeded 7% (see table (8)).²⁸ As important, it is also argued that the high interest rates on

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Real interest rates on foreign debt is calculated as nominal interest rates plus exchange rate depreciations minus domestic inflation rates. The reason real interest rates on foreign debt are less than those on domestic debt is because the interest parity condition does not hold, an outcome of three possible asymmetries. The first asymmetry arises when domestic investors expect or fear a larger devaluation on domestic currency debt than that forecast by the government – and the government may decide it is to its advantage to take on the foreign exchange risk itself. The second asymmetry arises when domestic investors, whose portfolio consist mainly of domestic claims, demand a higher return on holding more government debt than foreign investors. The third asymmetry may occur when the government is viewed as less likely to default on a foreign bond issue than on a domestic one; see Gray and Woo (2000).

domestic debt instruments – which act as a benchmark for other rates – were a product of imperfect competitive bidding in the auctioning of T-bills that kept interest rates artificially high.²⁹ At any rate, not allowing interest rates to be fully determined by market forces has magnified unnecessarily the debt problem and put a brake on domestic investments.

But that is not the end of the story. If we concentrate on foreign debt, even a spread of 4-5% could be considered excessive, especially in light of its contribution to GDP growth.³⁰ To investigate this concern, we need to look at the economics of resource flows. For given domestic savings, these flows – net debt, FDI, equity, and other flows – cover excess investment and thereby close the resource gap. Accordingly, from the GDP identity, investment I is financed from domestic savings S_d and resource flows identical to the trade balance (deficit) TB in goods and services:

$$(4) I = S_d + TB$$

If we divide (4) by Y and multiply its left side by dY/dY, we get:

See Hakim and Andari (1997) and Gaspard (2004), where the latter estimates that a reasonable market interest rate is about 8-9%. In addition, how could one otherwise explain the huge drop in interest rates (by 4%) from Paris II as a result of debt transactions involving 11% only of total debt! In fairness, though, interest rates seem also to have been set so as to allow banks a margin to attract capital from the region and enable them to rebuild their reserves and capital base.

The spread is the average difference between interest on two-year Lebanese Eurobonds and US T-bills of the same maturity.

(5) $dY/Y = (S_d/Y + TB/Y) dY/I$.

Equation (5) breaks down the growth in GDP into that financed by domestic and foreign sources, each multiplied by the marginal productivity of capital dY/I (MPK). Table (9) shows that Lebanon depends exclusively on resource flows as contributors to its GDP growth, and the onus then is to increase in the long run the source of domestic savings and obviate the need to rely on what could be unreliable or hard-to-attain external sources.³¹

More important, does the increase in GDP due to debt flows outweigh the interest paid on its service such that the resulting net effect is an increase in *national* income? Table (10) shows that the average contribution of foreign debt to GDP is smaller than the interest paid on it: 0.72% against 2.54%. Hence, Lebanon is not getting its "money's worth" from foreign debt. This also means that foreign debt is imposing a double burden: a general burden that relates to servicing ability, and a more taxing burden that arises from the fact that the "price" of this ability is larger than its "reward". One possible explanation for this result is that, being mostly public, the foreign debt is used to finance budget expenditures that are mostly current and of limited growth mileage. Another explanation could be that which relates to the productivity of investment: even if a decent

The difference between resource gaps and the *lower* current account deficits reported in table (2) is private unrequited transfers, mainly emigrants' income.

part of foreign debt is devoted to capital budgetary expenditures, the growth potential of these expenditures is not going to be all that high given an MPK of no more than 13%.³²

The question of interest rates, of course, ties closely to that of exchange rates. The system of pegged exchange rates to the \$US that the country has adopted since 1996-97 left very little maneuver to activate monetary policy. This is because of the infamous "impossible trinity": with free capital mobility and fixed exchange rates, central bank monetary independence is sacrificed. In effect, interest rates in Lebanon are set at world levels plus a risk premium. However, these rates have shown to be overvalued and, in all likelihood, so have exchange rates.³³ Although it is not easy to ascertain the equilibrium real exchange rate, a simple check for its overvaluation is whether external and/or internal balance is maintained. In this respect, and as we saw in tables (1) and (2), both unemployment and current account deficits have been hallmarks of the post-war period – a preliminary indication that exchange rates are indeed overvalued. There are at least three potential drawbacks to overvalued exchange rates for the Lebanese economy. First, loss of competitiveness and export capability, as high real effective exchange rates during 1992-02 reduced the exports to GDP ratio from 10.5% to 5.3%, only to recover to 8% when real

This compares to an MPK of 20% for developing countries; see IMF (2005).

³³ See Kubrusi (2001).

exchange rates fell in 2003-04 (see table (11)).³⁴ Second, quasi-fiscal costs incurred in sterilization activities that aim at maintaining the exchange rate peg. These quasi-fiscal costs could be very important, especially in the context of foreign debt where the difference on what the central bank pays as interest on government bonds because of sterilization and what it earns on investing the reserves arising from foreign debt could exceed the interest savings reaped from resorting to foreign instead of domestic debt – on average equal to at least 3.5% in quasi-cost.³⁵ Third, reserve offsets caused by excessive monetization: at given income and prices, the excess money is exchanged for foreign currency at the fixed rate, such that the added government bonds on the asset side of the central bank's balance sheet are offset by reserves loss – as was intensely the case in 2000-01 and 2004 (see table (4)). And as is commonly known, fixed exchange rates deny the economy the flexibility to adjust to external shocks – economic not politic – and to help in diversifying exports and their markets.

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Competitiveness, of course, was not helped by high average tariffs which up to 2002 constituted 35% of tax revenues.

This is equal to the difference between, on the one hand, the difference between 14.9% paid on government bonds because of sterilization and 4.2% in LIBOR earned on foreign reserves and, on the other hand, the difference of 7% in interest saved from contracting foreign instead of domestic debt.

If more exchange rate flexibility is then desirable, what determines the magnitude of its adjustment?³⁶ To study the extent of flexibility, we can pose the question as one involving a trade-off: one the one hand, a depreciation in the exchange rate increases the domestic currency value of foreign debt and reduces the government's ability to service it;³⁷ on the other hand, the lack of needed depreciation denies the economy the capacity to attain external balance and contributes to further foreign debt. To resolve this bind, a government loss function can be constructed to balance the government's choice between these two options and to minimize its losses. Let f = F/Y, where F is foreign debt; hence, df/f = dF/F - dY/Y. Since changes in foreign debt are equal to current account imbalances, then:

(6)
$$dF = -TB + i_f F$$

where if is interest rate on foreign debt. As a result:

(7)
$$df/f = -TB/F + i_f - dY/Y$$

We will not go into a discussion of which system of adjustable flexibility is best, but suffice it to say that it is recommended that flexibility targets a level of real exchange rates that helps maintain external/internal balance and be tied to a currency (or a basket of currencies) that reflect trading potential and foreign debt composition; see IMF (2003).

In other words, the government incurs a short foreign exchange position by assuming foreign currency debt, and a depreciation will increase its servicing cost due to declining foreign currency value of its revenues.

Let e be the exchange rate, or the domestic currency price of one unit of foreign currency, and \dot{e} be its rate of change (positive \dot{e} signifies a depreciation in e). The effect of depreciation on the government's worsening ability to repay its foreign debt can be expressed by interpreting interest paid as: $i_f + \dot{e} - \pi$. This translates (7) into:

(8)
$$df = (i_f + \dot{e} - \pi - TB/F - dY/Y)f$$

To indicate increasing marginal cost, the loss function L will be quadratic in df and the departure of è from the desired change in the exchange rate è* that maintains external balance:

(9)
$$L = \alpha \left[(i_f + \dot{e} - \pi - TB/F - dY/Y) f \right]^2 + \beta \left[\dot{e}^* - \dot{e} \right]^2$$

where α and β are positive, reflecting the cost coefficients or degree of risk aversion to foreign debt accumulation and external imbalance respectively. The optimum change in the exchange rate \dot{e}° that minimizes L is:

(10)
$$\dot{e} = \dot{e} - (i_f + \dot{e} - \pi - TB/F - dY/Y) f\alpha/\beta$$

Assuming a perfect pass-through effect such that π = \dot{e} , then (10) becomes:

(11)
$$\dot{e}^{0} = \dot{e}^{*} - (i_{f} - TB/F - dY/Y) f\alpha/\beta$$

Equation (11) indicates that optimal changes in the exchange rate will be less than è* the higher the public aversion to foreign debt (α) and the interest (i_f) paid on the latter, in addition to larger trade deficits (negative TB) that require the contracting of more foreign debt. In this context, one prime reason why optimal exchange rate adjustments have been absent from economic decision making is the foreign currency exposure of commercial banks and their borrowers. Notwithstanding the validity of this concern, its probable damage to the balance sheets of banks is exaggerated.³⁸ This is because, though the ratios of deposit and private credit dollarizations are 70% and 83% respectively, the ratio of private credit to deposits is only 35%. In other words, the bulk of dollarized deposits is in foreign assets, reserves, and foreign currency sovereigns, and any ensuing currency and maturity mismatches are not substantial.³⁹

The discussion in this section has established two essential observations. First, interest rates were higher than warranted by market essentials, and setting them at reasonable rates could have eased the country's escalating debt through lower interest payments and higher growth. Resorting to foreign debt did slow down the rise in debt ratios, but that proved to be doubly burdensome. Second, exchange rates were kept at what appears as

For more on this concerned view, see IMF (2004b).

See Central Bank of Lebanon (Various Issues). In 2004, the composition of banks' assets was as follows (in LL trillion): 29.8 reserves; 20.4 foreign assets; 24.1 credit to the government (14 in foreign currency sovereigns); and 24 credit to the private sector. As to the composition of deposits: 1.4 demand deposits; 66.9 time and foreign currency deposits; 18.3 foreign liabilities; and 1.5 government deposits.

overvalued levels, and their downward adjustment could have benefited the economy by more than any presumed harm to the balance sheets of the banking system and its ripple down effects.

V – Political Economy and Finance

A discussion of the political economy of Lebanon has to wrestle with issues of governance and the institutional capability of the state. Lebanon is a difficult country to govern, and badly governed countries rarely produce sound economies. Its segmented politics, largely a product of its confessional system, ultimately breeds corruption and government failure. From a historical perspective, the only bright spot in the sad history of the county to establish a semblance of accountable government institutions was during the Chehab presidency in 1958-64. But this attempt soon fizzled, undermined to this day by internal fissures and regional pressures that still deny the country a strong central state. Perhaps prophetically, the architects of the republic in the late 1940s had an inkling of that, and deferred instead to the market to be the agency for economic and social organization. But markets also fail, and they tend to reproduce any initial distribution of resources and not to guarantee structural transformation – to the dismay of those who are left out and to the detriment of their prospects for a better economy. As a result, Lebanon remains stuck between a rock and a hard place, between government failure and market failure.

The extent of government failure and corruption caused by confessionalism can not be underestimated. 40 Corruption administered in small doses in a confessional system could of course be acceptable, since it could play a functional role in redistributing resources to those groups failed or not favored by the market (or history), and in the process create a semblance of needed social balance. But Lebanese corruption does not come in small doses and is not economically costless – especially in the post-war period. There are two main reasons for this rampant corruption. First, the rivalry and lack of enough trust among confessional groups make it difficult to establish independent oversight authorities that could hold confessional elites accountable for their actions. The result is that elites find little inhibition and have no qualms at appropriating part of public resources to their private purse. Not surprisingly, this turns contagious because it trickles down to corruption at the lower echelons of public officialdom. And it also proves costly; for instance, it is estimated that the cost of corruption in disbursing non-recurrent expenditures during 1992-2002 was close to \$7 billion.⁴¹ Second, the patronage system that confessionalism entails and which aims at cementing allegiance ties between elites and their followers. This has spawned sizeable crony employments in an overstaffed public payroll of about 220,000 (more than 20,000 employed in the post-war period alone) at a cost of more than 10%

It is true that confessionalism is not the germ of all ills in Lebanon, but unfortunately it is the one that is hardest to eradicate.

At a corruption or waste rate of 20%; see Gaspard (2004).

of GDP.⁴² Although imperfect and perhaps an unfair analogy, what we see then is a government sector that somehow resembles its EDL: living beyond its means, mired in inefficiencies, and lacking in proper governance.

Failure, however, is not confined to the government sector only – it has spilled over to economic sectors as well, perhaps most crucially the banking sector. It is not inaccurate to argue that the post-war economy decided to "lead by finance", banking on its reputable commercial banks However, commercial banks have to deliver recovery and more. contributed mildly to the country's development, but lived opulently off its hardships. Historically, banks financed one third of investment which is too low for a bank-based financial system; 43 and in 1987, they started the monetary crisis by speculating heavily against the Lebanese pound. And zeroing in on the post-war period, we see more of the same. The share of banks' credit in investment dropped to 15% by 2004, exchanged for the comfort of investments in lucrative government bonds (see table (12)). And given the case of overvalued interest rates discussed earlier, these investments netted banks more than \$9 billion in excess interest payments – which, incidently, if added to the aforementioned \$7 billion in

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It is interesting that a relatively large public sector still implies a weak state, and this in a country that has always prided itself of its laissez faire; see Kisirwani (1998).

A market-based financial system is yet to develop: the stock exchange has only 16 listings with a market capitalization to GDP ratio of about 10%, and the active bond markets are those of T-bills.

corruption cost, becomes almost identical to the country's current foreign debt and makes the latter a possible case of *odious debt*.⁴⁴ What is ironic is that banks are not particularly profitable: though their return on equity is an average 10%, their return on assets is less than 1% – at 0.65% only. It is unfortunate, then, that the rentierism involved in finance capital diverted banks away from their true and needed mission, that is, to complement internal finance in funding worthwhile investments.

VI - Conclusion

It is easy but inevitable to criticize in retrospect; more important, it is seldom that we sympathise with the dilemmas facing policy markers at the time decisions are taken, not the least the dilemma of balancing political constraints with economic objectives. In Lebanon, political constraints are of course not in shortage, so perhaps the paper's criticisms need to be tempered. But if political constraints currently have a better chance to be relaxed, then consensual economic reforms on selected yet essential policies can benefit from two general recommendations that are implied by the paper – bearing in mind the necessity of parallel, though difficult, governance and institutional reforms.

First, in the short term, strategies to reduce the public debt should rely on concessional, official sources for its foreign borrowings, and should set

⁴⁴ For more on these issues, see Gaspard (2004).

interest rates at lower, market-determined levels for its domestic borrowings. The resulting slide in debt ratios should release more bank deposits to be borrowed by the private sector, and should involve finding the right incentives and commitments by commercial banks to lend to this sector. And in due time, more flexibility in exchange rates will be desired, especially when foreign debt becomes reasonably reduced.

Second, in the medium term, the prime focus of economic policy should be on the real sector – not the financial sector, there are too many more sophisticated centers emerging in the region. This should translate to reducing the cost of doing and attracting business in the economy, and to assisting business in increasing its productivity, so as to enhance the supply of valuable goods and services for the home and *export* markets. In this respect, and although not discussed in the paper, the economy can fall back onto its *proximate fundamentals*; that is, it can try to "forget its history" and "rediscover its geography" – at the center of trade routes between Asia, Europe, and North Africa – and to rely on the literacy and acumen of its people.

Tables

Table (1): Macroeconomic and Social Indicator (%)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Real GDP Growth	4.5	7.0	8.0	6.5	4.0	4.0	3.0	1.0	-0.5	2.0	2.0	3.0	5.0
Inflation	8.66	24.7	8.2	10.3	8.9	7.7	4.5	0.2	-0.4	-0.4	1.8	1.3	3.0
Exchange Rate (LL per \$)	1713.0	1741.0	1679.0	1621.0	1571.0	1540.0	1516.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0
GDP (\$Million)	5544.7	7536.2	9165.0	11122.2	12996.2	14862.0	16166.9	16490.9	16494.2	16708.5	17377.1	18124.0	19754.0
GDP (LL Billion)	9498.0	13124.0	15388.0	18028.0	20417.0	22880.0	24509.0	24865.0	24865.0	25188.0	26196.0	27322.0	29780.0
GDP per capita (\$)	1772.0	2312.0	2710.0	3178.0	3640.0	4082.0	4370.0	4386.0	4380.0	4408.0	4552.0	4715.0	5104.0
Yield on 2-year	26.00	23.99	15.84	23.39	20.54	16.73	16.66	14.64	14.64	14.64	9.41	7.99	7.89
Treasury Bills													
				1990			1995			2000			2003
Human Development Index				0.673			0.732			0.752			0.758
				1990-1996						1996-2001			
Average Unemployment				7.30						8.40			

Source: IMF, World Economic Outlook (Various Issues); Central Bank of Lebanon, Annual Report (Various Issues); AMF, Arab Unified Economic Report (Various Issues); ESCWA, Survey of Economic and Social Developments in the ESCWA Region (2005); UNDP, Human Development Report (Various Issues).

Table (2): Budget Deficit Types, Current Account Deficit, and Investment (% of GDP)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Conventional Deficit	14.76	8.84	19.26	15.64	18.08	20.23	14.15	14.39	21.35	16.78	16.39	14.41	10.17
Primary Deficit	9.93	2.87	9.35	5.32	5.08	5.49	0.47	-0.18	4.49	-0.34	-1.26	-3.40	-3.30
Operational Deficit	-33.19	-1.94	16.16	10.30	12.97	14.63	10.51	14.22	21.77	17.21	13.50	12.20	5.50
Current Account Deficit	49.80	49.00	44.30	42.90	35.30	38.90	37.10	29.70	27.80	32.20	25.10	24.40	27.90
Private Investment	27.56	26.11	19.84	19.66	20.63	20.50	24.77	24.69	25.48	24.48	26.77	25.82	26.90
Government Investment	1.54	2.99	9.26	9.44	8.47	8.60	4.33	4.41	3.62	4.62	2.33	2.58	2.59

Source: AMF, Arab Unified Economic Report (Various Issues); and authors' calculations.

Table (3): Budget Structure (LL Billion)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Revenue	1031	1855	2241	3033	3533	4010	4448	4868	4748	4646	5846	6654	7514
Indirect Taxes (%)	41.70	40.05	41.10	48.90	64.70	57.30	53.60	49.05	41.50	40.27	47.50	47.79	47.75
Customs Duties (%)	31.40	35.74	35.29	43.52	46.20	45.90	44.50	44.05	36.85	35.12	27.67	24.69	21.51
VAT (%)	•	•	,							,	17.00	20.95	23.46
Direct Taxes (%)	17.70	11.20	12.90	10.20	9.90	11.50	10.10	11.50	10.50	13.40	12.43	11.76	12.08
Other (%)	40.60	48.75	46.00	40.90	25.40	31.20	36.30	39.45	48.00	46.33	40.07	40.45	40.17
Expenditure	2436	3017	5204	5856	7225	8639	9062	8453	10059	8875	10139	10592	10540
Current Expenditure (%)	87.10	86.97	75.98	79.23	83.45	84.00	86.58	87.03	91.05	86.90	94.27	93.25	92.25
Salaries and Wages (%)	27.10	42.92	32.85	31.91	29.08	27.00	29.74	32.65	28.9	33.47	29.92	29.14	29.35
Interest Payments (%)	21.30	24.99	28.57	32.03	37.13	41.97	42.39	42.90	41.72	48.58	45.59	46.01	38.10
Other (%)	38.70	19.05	14.83	17.52	17.24	15.05	14.45	11.48	20.43	4.85	18.76	18.10	24.80
Capital Expenditure	12.90	13.03	24.02	20.77	16.55	16.00	13.42	12.97	8.95	13.10	5.73	6.74	7.75
Revenue as % of GDP	10.85	14.13	14.56	16.82	17.30	17.52	18.14	19.57	19.09	18.44	22.31	24.35	25.23
Expenditure as % of GDP	25.64	22.98	33.81	32.48	35.38	37.75	32.25	33.99	40.45	35.23	38.70	38.76	35.39
Budget Deficit as % of Expenditure	57.55	38.48	56.95	48.17	51.10	53.58	43.85	42.33	52.79	47.65	42.34	37.17	30.92

Source: Annual Reports, Central Bank of Lebanon, and Ministry of Finance (Various Issues).

Table (4): Desired vs. Actual Monetization and International Reserves Offsets

	1992	1993	1994	1995	1996	1996 1997	1998	1999	2000	2001	2002	2003	200
Money Base / GDP	0.160	0.164	0.248	0.256	0.274	0.367	0.324	0.336	0.359	0.486	0.515	1.095	1.037
Real GDP Growth (%)	4.50	7.00	8.00	6.50	4.00	4.00	3.00	1.00	-0.50	2.00	2.00	3.00	5.00
Desired Monetization (% of GDP)	0.72	1.15	1.98	1.67	1.10	1.47	0.97	0.34	-0.18	0.97	1.03	3.28	5.18
Actual Monetization (% of GDP)	-0.17	1.46	-2.57	0.14	0.03	1.27	-0.99	0.14	69.7	18.96	-11.48*	30.14	5.30
International Reserves (\$ Million)	1496	2260	3884	4533	5932	9265	9559	9/1/	5944	5014	7244	12519	11735
International Reserves Offsets (% of GDP)	4.0	10.1	17.7	5.8	10.8	0.3	3.6	7.4	-11.1	-5.6	12.8	29.1	-3.1

^{*} This is due to the write-down of around \$ 2 billion of treasury bills held by the central bank, nominally financed through the revaluation of government gold reserves at the bank.

Source: AMF, Money and Credit in the Arab Countries (Various Issues); and author's calculations.

Table (5): Ratio of Debt to GDP and Debt Dynamics (%)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Domestic Debt	51.4	4.4	2.09	66.5	84.4	86.5	88.5	102.1	109.2	112.0	9.96	98.2	88.5
Foreign Debt	5.4	4.3	8.4	11.2	14.7	16.3	25.7	33.5	42.1	57.6	84.0	85.6	93.1
Total Debt	8.99	48.7	69.2	7.77	0.66	102.7	114.2	135.6	151.4	169.6	180.5	183.8	181.6
P/Y	9.93	2.87	9.35	5.32	5.08	5.49	0.47	-0.18	4.49	-0.34	-1.26	-3.40	-3.30
$(r-g)^*(B/Y)$	-92.71	9.76	3.73	0.48	4.91	5.10	6.94	13.42	18.10	14.92	11.91	10.85	-1.08
Change M / Y	-0.17	1.46	-2.57	0.14	0.03	1.27	-0.99	0.14	69.7	18.96	-11.48*	30.14	5.3

^{*} This is due to the write-down of around \$ 2 billion of treasury bills held by the central bank, nominally financed through the revaluation of government gold reserves at the bank.

Source: Same as Table (2).

Table (6): Budget Deficit, Debt and Interest Payments (LL Billion)

9945 Hondstic Deficit Foreign Deficit Total Demestic Deficit Total Deficit To				Debt		In	Interest Payments	ıts	In	Interest Rates (%)	(%
1402 4882 515 5396 394 65 459 104 209 1161 5823 569 6391 754 30 784 15.4 5.8 2964 9348 1297 10644 1472 53 15.25 9.3 362 11997 2014 14011 1745 117 1862 18.7 9.3 4629 17229 2994 20223 2508 185 26.93 9.2 4629 1768 2376 2759 186 3408 18.7 9.3 3467 21686 6306 27991 3051 361 352 15.4 8.1 3479 25383 33315 3512 410 3624 14.8 6.5 4229 2534 1450 4728 378 124 487 12.8 8.0 4239 2634 2639 2628 4197 12.9 9.3 3360 <th></th> <th>Budget Deficit</th> <th>Domestic</th> <th>Foreign</th> <th>Total</th> <th>On Domestic Debt</th> <th>On Foreign Debt</th> <th>On Total Debt</th> <th>On Domestic Debt</th> <th>On Foreign Debt</th> <th>On Total Debt</th>		Budget Deficit	Domestic	Foreign	Total	On Domestic Debt	On Foreign Debt	On Total Debt	On Domestic Debt	On Foreign Debt	On Total Debt
1161 5823 569 6391 754 30 784 15.4 5.8 2964 9348 1297 10644 1472 53 1525 5.3 9.3 2820 11997 2014 14011 1745 117 1862 18.7 9.0 3622 1729 2023 2508 185 2693 20.9 9.2 4629 1978 2126 2791 3051 301 3626 18.7 6.2 3447 21686 6306 27991 3051 312 18.8 8.1 3579 25383 8332 3715 3214 410 3624 14.8 6.5 4229 2534 4273 3470 82 4197 14.1 7.5 4229 25294 21992 47286 378 176 92 9.3 3540 26834 2396 363 378 176 92 9.3	1992	1402	4882	515	5396	394	99	459	10.4	20.9	11.2
2964 9348 1297 10644 1472 53 1525 25.3 9.3 2820 11997 2014 14011 1745 117 1862 18.7 9.0 4629 17229 2924 20223 2508 185 20.9 9.2 3467 1978 371 2368 322 186 18.7 6.2 3470 21686 6306 27991 301 362 18.8 8.1 3579 25383 8332 33715 3214 410 3624 14.8 6.5 4229 2531 1450 42723 3572 625 4197 14.1 7.5 4293 25294 14509 47286 3278 1767 4874 12.3 8.0 356 2633 2636 2736 1776 4874 12.3 8.9 356 2637 2710 24083 2746 1776 875 87 <	1993	1161	5823	995	6391	754	30	784	15.4	5.8	14.5
2820 11997 2014 14011 1745 117 1862 187 2693 9.0 3692 17229 2994 20223 2508 185 2693 20.9 9.2 4629 1978 3712 2350 322 186 3408 18.7 6.2 3467 2168 6306 27991 3051 410 18.7 6.2 5311 27161 10476 37637 3572 625 4197 14.1 7.5 4229 28214 14509 42723 3470 842 4312 7.5 8.0 4293 25294 21992 47286 3278 1345 4874 12.3 8.0 3546 2633 2634 3246 1776 4874 12.3 8.0 3540 26373 2771 2408 776 8.7 8.5 6.4	1994	2964	9348	1297	10644	1472	53	1525	25.3	9.3	23.9
462 1722 2934 2023 2508 185 2693 2099 92 462 1978 371 23508 322 186 3408 18.7 62 3467 21686 6306 27991 3051 312 15.4 8.1 3579 25383 8332 33715 3214 410 3624 14.8 6.5 4229 28214 14509 42723 3470 842 4312 12.8 8.0 4293 25294 21992 47286 3278 1345 4622 11.6 9.3 3938 26834 23396 5030 3108 1767 4874 12.3 8.0 3260 26373 2710 54083 2246 1776 85 64	1995	2820	11997	2014	14011	1745	117	1862	18.7	0.6	17.5
4629 19787 3721 23508 3222 186 3408 18.7 6.2 3467 21686 6306 27991 3051 301 3352 15.4 8.1 3579 25383 8332 33715 214 410 3624 14.8 6.5 4229 28214 14509 42723 3470 842 13.8 8.0 4293 25294 21992 47286 3278 1767 4874 12.3 8.0 3938 26834 23396 50230 3108 1767 4874 12.3 8.0 3260 26373 2746 1776 4824 8.5 6.4	1996	3692	17229	2994	20223	2508	185	2693	20.9	9.2	19.2
3467 21686 6306 27991 3051 301 3352 15.4 8.1 3579 25383 8332 33715 3214 410 468 14.8 6.5 4219 27161 10476 37637 3572 625 4197 14.1 7.5 4229 28214 14509 42723 3470 842 4312 12.8 8.0 4293 25294 21992 47286 3278 1767 4874 11.6 9.3 3938 26834 27710 54083 2246 1776 4874 8.5 64	1997	4629	19787	3721	23508	3222	186	3408	18.7	6.2	16.9
3579 25383 8332 33715 3214 410 3624 14.8 6.5 4210 27161 10476 37637 3572 625 4197 14.1 7.5 4229 28214 14509 42723 3470 842 4312 12.8 8.0 4293 25294 21992 47286 3278 1345 4622 11.6 9.3 3938 26834 23396 50230 3108 1767 4874 12.3 8.0 3260 26373 27710 54083 2246 1776 4022 8.5 6.4	1998	3467	21686	9089	27991	3051	301	3352	15.4	8.1	14.3
5311 27161 10476 37637 3572 625 4197 14.1 7.5 4229 28214 14509 42723 3470 842 4312 12.8 8.0 4293 25294 21992 47286 3278 1345 4622 11.6 9.3 3938 26834 23396 50230 3108 1767 4874 12.3 8.0 3260 26373 27710 54083 2246 1776 4022 8.5 6.4	1999	3579	25383	8332	33715	3214	410	3624	14.8	6.5	12.9
4229 28214 14509 42723 3470 842 4312 12.8 8.0 4293 25294 21992 47286 3278 1345 4622 11.6 9.3 3938 26834 23396 50230 3108 1767 4874 12.3 8.0 3260 26373 27710 54083 2246 1776 4022 8.5 6.4	2000	5311	27161	10476	37637	3572	625	4197	14.1	7.5	12.4
4293 25294 21992 47286 3278 1345 4622 11.6 9.3 3938 26834 23396 50230 3108 1767 4874 12.3 8.0 3260 26373 27710 54083 2246 1776 4022 8.5 6.4	2001	4229	28214	14509	42723	3470	842	4312	12.8	8.0	11.5
3938 26834 23396 50230 3108 1767 4874 12.3 8.0 3260 26373 27710 54083 2246 1776 4022 8.5 6.4	2002	4293	25294	21992	47286	3278	1345	4622	11.6	9.3	10.8
3260 26373 27710 54083 2246 1776 4022 8.5 6.4	2003	3938	26834	23396	50230	3108	1767	4874	12.3	8.0	10.3
	2004	3260	26373	27710	54083	2246	1776	4022	8.5	6.4	7.4

Source : Same as Table (2).

Table (7): Selected Foreign Debt Indicators (%)

	1992	1993	1994	1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003	1996	1997	1998	1999	2000	2001	2002		2004
Ratio of Debt from Official Sources to Total Debt Outstanding	70.43	78.53	37.92	70.43 78.53 37.92 26.75 26.85 21.95 18.70 15.79 12.73	26.85	21.95	18.70	15.79	12.73	9.75	6.95 11.23	11.23	10.88
Ratio of Total Debt Service to Exports of Goods and Services	2.09	2.15	3.50	2.09 2.15 3.50 7.52 9.82 16.41 12.91 20.09 39.50 38.33	9.82	16.41	12.91	20.09	39.50	38.33	54.66	62.92	56.10
Ratio of Public and Publicly Guaranteed Debt to Total Debt	100.0	100.0	100.0	100.0 100.0 100.0 98.3 89.7	7.68	82.4 88.4	88.4	91.8	92.5	93.3	95.9	96.3	96.3

Source: World Bank, Global Development Finance (Various Issues).

Table (8): Real Interest on Foreign and Domestic Debt (%)

	1992	1993	1994	1995	1996	1997	1998	6661	2000	2001	2002	1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	2004
Nominal Interest Rate on Foreign Debt	20.9	20.9 5.8 9.3 9.0 9.2 6.2 8.1 6.5 7.5 8.0 9.3	9.3	0.6	9.2	6.2	8.1	6.5	7.5	8.0	9.3	8.0	6.4
Rate of Inflation	8.66	24.7	8.2	10.3	6.8	7.7	4.5	0.2	-0.4	-0.4	1.8	1.3	3.0
Exchange Rate Depreciation	84.6	1.6	-3.6	-3.5	-3.1	-2.0	-1.6	-0.5	0.0	0.0	0.0	0.0	0.0
Real Interest on Foreign Debt	5.7	-17.2	-2.4 -4.8 -2.8	8.4	-2.8	-3.5	2.0	8.8	7.9	8.4	7.5	6.7	3.4
Real Interest on Domestic Debt	-89.42	-89.42 -9.25 17.08 8.37 12.00 11.00 10.92 14.62 14.47 13.18 9.82	17.08	8.37	12.00	11.00	10.92	14.62	14.47	13.18	9.82	10.99	5.50

Source : Same as Table (2).

Table (9): Resource Gap, Investment and Domestic Savings (% of GDP)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Resource Gap	38.1	38.1	38.2	38.5	38.2	38.2	38.2	38.2	38.2	38.2	38.2	34.3	38.8
Investment	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	28.4	29.4
Domestic Savings	0.6-	0.6-	-9.1	-9.4	-9.1	-9.1	-9.1	-9.1	-9.1	-9.1	-9.1	-5.9	-9.4
Net Flow of Long-Term Debt	9.0-	0.1	4.2	7.2	5.9	6.4	9.6	7.7	8.7	15.4	26.1	3.4	09.9
Foreign Direct Investment	0.1	0.1	0.1	0.3	9.0	1.0	1.2	1.5	1.8	1.5	1.5	2.0	6.5
Portfolio Equity Flows	0.0	0.0	0.0	0.3	6.0	0.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0
Change International Reserves*	-4.0	-10.1	-17.7	-5.8	-10.8	-0.3	-3.6	-7.4	11.1	5.6	-12.8	-29.1	3.9

^{*} Negative changes in International Reserves are equivalent to accumalation of reserves, whereas positive changes are equivalent to depletion of reserves.

Source : Same as Tables (2) and (7).

Table (10): Contribution to GDP Growth (%)

	CDD Custo	Chomod V		Contribution to GDP of		Interest Rate on
		Change 1 / 1	Resource Gap	Domestic Savings	Net Debt Flows	Foreign Debt as % of GDP
1992	4.50	0.15	5.70	-1.35	-0.09	0.45
1993	7.00	0.24	9.10	-2.10	0.02	0.31
1994	8.00	0.27	10.30	-2.40	1.13	0.28
1995	6.50	0.22	8.40	-2.00	1.58	0.49
1996	4.00	0.14	5.30	-1.30	0.82	1.15
1997	4.00	0.14	5.30	-1.30	06.0	1.35
1998	3.00	0.10	3.80	06.0-	96.0	1.63
1999	1.00	0.03	1.10	-0.30	0.23	2.19
2000	-0.50	-0.01	-0.38	0.09	-0.08	2.80
2001	2.00	90.0	2.30	-0.60	0.92	3.86
2002	2.00	90.0	2.30	-0.60	1.56	5.54
2003	3.00	0.10	3.40	-0.03	0.34	7.04
2004	5.00	0.17	09.9	-1.60	1.12	5.96
Average	3.81	0.13	4.86	-1.11	0.72	2.54

Source: Same as Table (9).

Table (11): Real Effective Exchange Rates, Exports, and Tariffs

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2000 2001	2002	2003	2004
Real Effective Exchange Rates	72.3	86.5	92.4 100.0	100.0	107.1	12.6	121.7	23.9	149.7	53.0	153.8 133.0	133.0	123.7
Real Exports (\$ Million)	619.1	8. 899	653.7	716.1	1131.7	624.6	687.2	651.3	645.1	799.3	0.006	1254.5	1360.1
Exports (% of GDP)	10.45	8.43	86.9	6.43	8.87	4.36	4.47	4.21	4.24	5.26	5.13	7.96	8.09
Average Tariff (%) *	4.56	8.13	8.47	12.03	13.69	16.08	18.53	23.05	18.69	14.86	16.32	15.22	11.46

^{*} Tariff revenue divided by value of goods imports.

Source: Same as Table (2).

Table (12): Commercial Banks

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Assets (LL Billion)	14634	18808	24285	29054	37183	45632	55030	02609	67888	71854	79065	87108	98483
Domestic Credit to Private Sector / Assets (%)	32.82	31.35	32.11	35.52	34.12	33.86	33.94	34.43	32.76	30.88	28.78	26.21	24.38
Change in Domestic Credit to Private Sector/ Investment (%)	18.22	31.89	62.29	71.12	56.19	58.92	53.20	37.67	19.71	-0.82	10.46	-1.28	14.79
Domestic Credit to Government / Assets (%)	21.16	21.33	28.44	27.35	32.43	29.00	32.60	35.82	34.27	32.10	33.61	24.11	24.52
Total Deposits (LL Billion)	11074	14560	18941	22067	27789	33523	39172	44006	48304	51759	55659	62791	68268
Deposits in \$ / in LL (%)	208.40	214.10	144.50	153.50	114.60	150.80	154.60	130.40	165.20	223.40	190.40	161.30	192.40

Source: Arab Monetary Fund, Money and Credit in the Arab Countries (Various Issues); Annual Report, Central Bank of Lebanon (Various Issues).

References

- Bhattacharya, R. 2003. "Exchange Rate Regime Considerations for Jordan and Lebanon," Working Paper WP/03/137. Washington, D.C: IMF.
- 2. Bolbol, A. 1999. "Seigniorage, Dollarization, and Public Debt: The Lebanese Civil War and Recovery Experience, 1982-97," *World Development*, Vol. 27, No. 10, pp: 1861-73.
- 3. Central Bank of Lebanon. Various Issues. *Annual Report*. Beirut: Central Bank of Lebanon.
- 4. Collier, P. 1999. "On the Economic Consequences of Civil War," *Oxford Economic Papers*, Vol. 51, pp: 168-83.
- 5. Denoeux, G. and R. Springborg. 1998. "Harriri's Lebanon: Singapore of the Middle East or Sanaa of the Levant?" *Middle East Policy*, Vol. 6, No. 2, pp: 158-73.
- 6. Economist Intelligence Unit. 2004. *Profile: Lebanon*. London: E1U.
- 7. Eken, S. et al. 1995. "Economic Dislocation and Recovery in Lebanon," *Occasional Paper #120*. Washington, D.C: IMF.
- 8. Gaspard, T. 2004. *A Political Economy of Lebanon, 1948-2002*. Boston: Brill.
- 9. Gray, S. and D. Woo. 2000. "Reconsidering External Financing of Domestic Budget Deficits: Debunking Some Received Wisdom," *Policy Discussion Paper PDP/00/8*. Washington, D.C: IMF.

- 10. Hakim, S. and S. Andari. 1997. "The Lebanese Central Bank and Treasury Bills Markets," *Middle East Journal*, Vol. 51, No. 2, pp: 230-41.
- 11. Haughton, J. 1998. "The Reconstruction of War-Torn Economies," *Consulting Assistance on Economic Reform II, Discussion Paper #23*. Cambridge, MA: Harvard Institute for International Development.
- 12. International Bechtel. 1992. *Recovery Planning for the Reconstruction and Development of Lebanon*. Beirut: Reports Prepared to the CDR, # 42 and #39.
- 13. International Monetary Fund. 2005. World Economic Outlook: Globalization and External Imbalances. Washington, D.C: IMF.
- 14. International Monetary Fund. 2004a. *Lebanon: Report on Interim Staff Visit*. Washington, D.C: IMF.
- 15. International Monetary Fund. 2004b. *Public Information Notice: Article IV Consultation with Lebanon*. Washington, D.C: IMF.
- 16. International Monetary Fund. 2003. World Economic and Financial Surveys: Exchange Rate Arrangements and Foreign Exchange Markets. Washington, D.C: IMF.
- 17. Kaufmann, D. et al. 2005. "Governance Matters IV," *Policy Research Paper #3630*. Washington, D.C: World Bank.
- 18. Kisirwani, M. 1998. "The Rehabilitation and Reconstruction of Lebanon," in *Remaking the Middle East*, P. White and W. Logan (eds.). New York: BERG.

- 19. Kubrusi, A. 2001. "Macroeconomic Policy in Lebanon Under Globalization," in *Globalization and the Management of National Economies*, A. Sadik and A. Bolbol (eds.). Abu Dhabi: Arab Monetary Fund.
- 20. Manasse, P. and N. Roubini. 2005. "Rules of Thumb for Sovereign Debt Crises," *Working Paper WP/05/42*. Washington, D.C: IMF.
- 21. Owens, R. 1981. *The Middle East in the World Economy, 1800-1914*. London: Methuen.
- 22. Picard, E. 1996. *Lebanon: A Shattered Country*. New York: Holmes and Meier.
- 23. Republic of Lebanon. 1992. *The Year 2000 Plan*. Beirut: Republic of Lebanon.
- 24. Rodrik, D. and A. Subramanian. 2003. "The Primacy of Institutions," *Finance and Development*, No. 3, pp. 31-4.
- 25. Rodrik, D. 2000. "Institutions for High-Quality Growth: What They are and How to Acquire Them," *Studies in Comparative International Development*, Vol. 35, No. 3, pp. 257-73.
- 26. Salem, P. 1991. "Two Years of Living Dangerously: General Awn and Lebanon's Second Republic," *The Beirut Review*, Vol. 1, No. 1, pp:1-13.
- 27. Tabbarah, R. 2002. *Employment and Unemployment in Lebanon*. Beirut: Center for Development Studies and Projects.
- 28. World Bdank. 2005. *Doing Business in 2006: Creating Jobs*. Washington, D.C: World Bank.