**Ministry of Finance of the Czech Republic** 

DEBT AND FINANCIAL ASSETS MANAGEMENT DEPARTMENT

# **Debt Portfolio Management Quarterly Review**

The Ministry of Finance submits the 26<sup>th</sup> Debt Portfolio Management Quarterly Review. The purpose is to present the underlying debt portfolio risk management measures and performance with respect to the planned annual financing program. Consequently, achievements of the medium-term strategic targets of debt management policy are reported. For the year 2011, these targets were quantified in the Financing and Debt Management Strategy for 2011 released on December 2, 2010. The Strategy specifies operating space of the asset and liability management trough issuance activity, financial investment and active operations of MoF on secondary market of government bonds and financial derivatives.

## 1 - Review of Strategic Targets for 2011

The 2011 state debt management policy is guided by the set of quantitative targets and criteria approved by the Minister of Finance for issuance activities and the active management of debt portfolio as summarized in the following table.

### Table 1: Financing programme and strategic targets in 2011

Criterion	Guidelines for 2011	June 30, 2011
International issues	Max. 40 % of the total annual gross borrowing requirement	0.4 %
	CZK 0.0 to 88.0 bn	CZK 0.9 bn
Gross government bonds issues	CZK 86.0 to 194.0 bn	CZK 96.1 bn
Net money market issues	CZK 20.0 to 40.0 bn	CZK 27.7 bn
Loans from EIB	CZK 5.5 bn	CZK 0.6 bn
Short-term state debt	20 % and less	17.0 %
Average time to maturity	5.25 to 6.25 years	6.0 years
Interest Rate Re-fixing up to 1 year	30 to 40 %	30.3 %
Average time to re-fixing	4 to 5 years	4.9 years
Foreign-currency state debt	At most 15 to 17 %	9.9 %

*Note: EIB – European Investment Bank. Gross government bonds issues includes tap sales and the sales to EIB. Source:* MF

As regards **international funding**, there was no change in the 2<sup>nd</sup> quarter of 2011 compare to the 1<sup>st</sup> quarter of 2011. In the second quarter of 2011 one tranche of loans has been drawn from the European Investment Bank valued at CZK 0.6 bn. In total the size of international funding has reached CZK 0.7 bn. In the first quarter Czech Republic has issued floating rate bond denominated in EUR in the amount of **EUR 37.5 mil**, i.e. **CZK 926.9 mil**, via tap sale.

Regarding **domestic issuance activity**, the total gross issuance of government bonds reached **CZK 56.7 bn.** during the 2<sup>nd</sup> quarter, including CZK 2.7 bn. bought by EIB. The total gross issuance reached about 49.5 %, i.e. CZK 96.1 bn. of the maximal supply initially announced on December 2, 2011. The net issuance of government bonds was **CZK 4.9 bn.** during the second quarter. Buy-backs of government bonds were not executed during the second quarter.

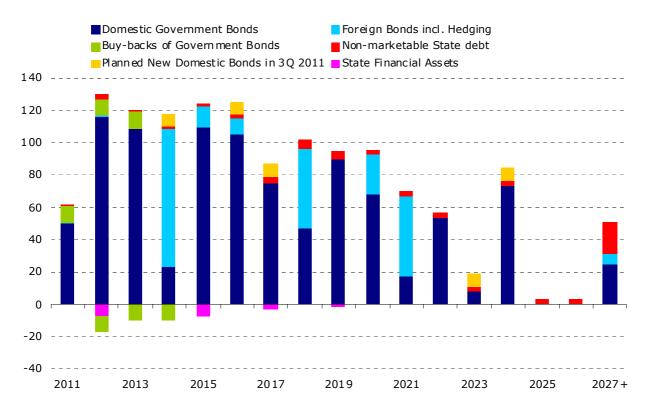
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The volume in issue of money market instruments increased by CZK 3.5 bn during the second quarter.

**The short-term state debt** mildly decreased by 0.2 percentage points and reached the share of **17.0 %** at the end of the second quarter. The figure remains, in accordance with Strategy, bellow the 20% ceiling.

**Average time to maturity** reached the level of **6.0 years** at the end of the second quarter, i.e. remains within the announced target bracket, i.e. 5.25–6.25 years for 2011.





*Note: Excluding money market instruments on the debt and assets side. The positive vertical scale shows liabilities, the negative vertical scale shows state financial assets and for 2011 – 2013 planned buy-backs. Profile does not include the impact of planned retail government bonds with maturities between 2012 and 2017.* 

#### Source: MF

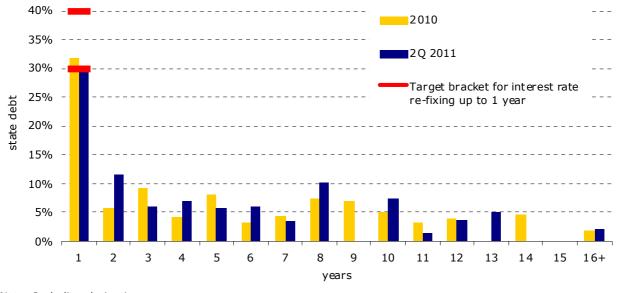
**Interest rate re-fixing up to one year** decreased by 2.3 percentage points during the second quarter and reached the share of **30.3** % and remains within the announced medium-term target bracket, i.e. 30 to 40 %.

Starting in 2011 the new strategic goal has been declared for interest rate debt management – **the average time to state debt re-fixing**. The Ministry has set an explicit target of a 4 to 5 year interval for this indicator. At the end of the second quarter the average time to state debt re-fixing reached the level of **4.9 years** and remains within the announced long-term target bracket.

From 2011 onwards the Ministry will actively manage **the share of foreign-currency state debt**. The strategic limit declared by the Ministry for 2011 and beyond is 15% (in short term up to 17%). The foreign-currency state debt reached the share of **9.9%** and remains bellow the 15% ceiling, which indicates low and stable foreign-currency exposition.

#### Figure 2: Re-fixing profil of state debt

(end of 1Q 2011 compared with end of 2010; updated on June 30, 2011)

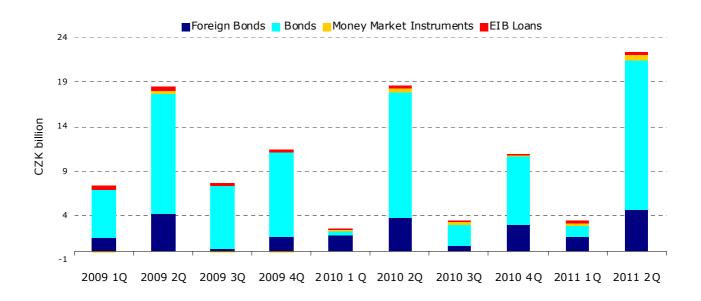


*Note: Including derivatives Source:* MF

## 2 – State debt costs and Cost-at-Risk

Figure 3 presents a breakdown of net interest costs related to the state debt in last two years. More detailed information describing the budgetary expenditures and revenues can be found in appendix (table 11). Figure 3 demonstrates regularity in lower net interest costs in the first and third quarter. The year to year comparision highlights relatively higher interest costs in 2<sup>nd</sup> quarter of 2011.

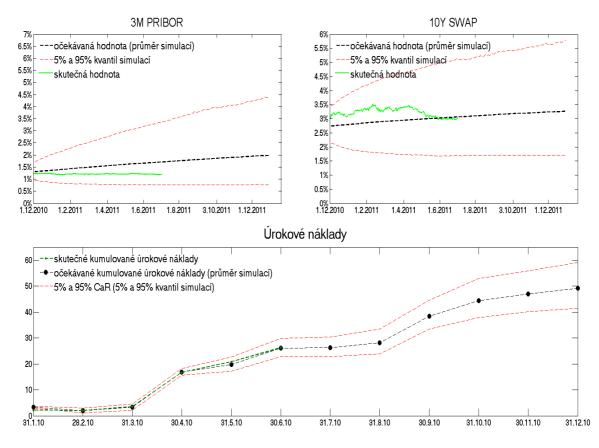
### Figure 3: Quarterly Breakdown of Change in Interest Costs



The state debt interest costs model Cost-at-Risk (CaR) for the year 2010 was published in the Financing and Debt Management Strategy for the year 2010. Calculations of the CaR values are based on future interest rates simulations.

The actual versus simulated developments of the PRIBOR 3M and 10Y CZK swap from December 1, 2010 till December 31, 2011 are displayed in the upper part of the figure 4. The development of the actual versus simulated net interest costs for the year 2010 is shown in the lower part of the figure 4.





*Note: Interest costs are calculated on the cash principle relevant for the current methodology of the state budget. Source:* MF

Table 2 refers to the comparison between the actual development of net interest costs and the development of the simulated interest costs at the end of the 2<sup>nd</sup> quarter of 2011 in comparison with the same period of the last year. The comparison is summarized in the following table.

### Table 2: Cost-at-Risk deviation from the actual interest costs at the end of 2009 and 2010

	30.6. 2010	30. 6. 2011
Actual net interest costs (CZK billion))	26.8	26.2
Expected net (simulated) costs (CZK billion)	34.3	26.0
Cost-at-Risk 95% (CZK billion)	36.5	29.9
Expectation	27.8	-0.7

# 3 – State Debt Parameters (end of quarter)

### **Table 3: Debt Parameters**

	30.6.2010	30.9.2010	31.12.2010	31.3.2011	30.6.2011
Total state debt (CZK billion)	1 246,1	1 384,8	1 344,1	1 404,4	1 412,9
Market value, inc. derivatives (CZK billion)	1 316,0	1 499,8	1 429,2	1 484,0	1495,5
Short-term state debt (%)	16,4	17,6	16,1	17,2	17,0
Share of money market instruments (%)	7,2	9,3	8,4	9,8	10,0
Average time to maturity (years)	6,3	6,1	6,3	6,0	6,0
Interest rate re-fixing up to one year, inc. derivatives (%)	31,7	31,9	31,7	32,6	30,3
Average interest rate re-fixing (years)	5,1	5,0	5,0	4,9	4,9
Variable-rate market debt	12,6	11,4	12,1	12,6	13,7
Modified duration (years)	4,5	4,5	4,4	4,2	4,2
Modified duration, exc. CZK IRS (years)	4,4	4,4	4,4	4,1	4,2
Foreign currency debt (%)	8,3	10,7	10,4	9,8	9,9
Foreign currency debt, exc. cross-currency swaps (%)	14,3	15,8	16,7	15,6	15,5
Share of ${\mathfrak C}$ on foreign currency debt	83,5	89,2	87,9	88,6	88,3
Nonmarketable state debt (%)	4,9	4,6	5,0	4,8	4,8

Marketable state debt (CZK billion)	1 184,8	1 321,8	1 276,6	1 337,3	1345,4
Market value (CZK billion)	1 253,5	1 435,4	1 360,0	1 415,3	1426,3
Short-term marketable debt (%)	17,1	18,3	16,9	18,0	17,6
Share of money market instruments (%)	7,5	9,7	8,9	10,3	10,5
Average time to maturity (years)	6,0	5,8	6,0	5,7	5,7
Interest rate re-fixing up to one year, inc. derivatives (%)	28,4	28,9	28,3	29,5	27,0
Average interest rate re-fixing (years)	5,3	5,2	5,3	5,1	5,1
Variable-rate marketable debt (%)	8,4	7,5	7,8	8,5	9,7
Modified duration (years)	4,7	4,6	4,6	4,3	4,4
Modified duration, exc. CZK IRS (years)	4,6	4,5	4,5	4,3	4,3
Foreign currency debt (%)	8,7	11,2	11,0	10,3	10,4
Foreign currency debt, exc. cross-currency swaps (%)	15,0	16,6	17,5	16,4	16,2
Share of $\in$ on foreign currency debt	83,7	89,3	87,9	88,6	88,3

*Notes:* **Interest rate re-fixing up to one year** = *Money market instruments* + *Fixed-rate short-term debt* + *Variable-rate state debt* + *Effect of interest rate derivatives.* 

### **Table 4: State Financial Assets**

	31. 12. 2010	30. 6. 2011
State financial assets		
Interest rate re-fixing up to one year (%)	88.4	91.3
Average time to re-fixing (years)	0.7	0.5
Investment portfolio and on-lending		
Average return (%)	2.0	2.0
Average time to maturity (years)	2.0	2.1
Modified duration (years)	1.8	1.9

Source: MF

## 4 - The net borrowing requirements

The central government's net borrowing requirements are determined primary by the state budget deficits. The final level of the net borrowing requirement is also influenced by state financial assets operations, lending and on-lending, and changes in the level of the financial reserve generated by bond issues. The net borrowing requirement is the principal factor driving the change in the nominal value of gross state debt. Since part of the state debt is denominated in foreign currencies, the state debt is also affected by changes of the particular bilateral exchange rate.

# Table 5: The net borrowing requirement of the central government and change in the state debt

CZK billion	2009	2010	30. 6. 2011		
Gross state debt the beginning of the period	999.8	1 178.2	1 344,1		
Primary balance of state budget, excluding on-lending	147.9	120.6	37		
Net expenditures on state debt <sup>1</sup>	44.5	35.8	25,8		
Extra-budgetary borrowing requirement	0.0	0.0	0,0		
Net borrowing requirement, net of assets operations	192.4	156.4	62,8		
State financial assets operations <sup>2</sup>	5.4	3.0	1,2		
On-lending (net change) <sup>3</sup>	0.0	1.7	0,0		
Financial reserve (net change) <sup>4</sup>	-19.6	7.1	8,2		
Net borrowing requirement	178.2	168.2	72,2		
Changes in nominal state debt <sup>5</sup>	0.2	-2.4	-3,4		
Gross debt change	178.4	165.8	68,8		
Gross state debt at the end of the period	1 178.2	1 344.1	1 412,9		
(% on GDP)	(32.5)	(36.4)	(38)		

<sup>1</sup> balance of budgetary chapter 396 – State debt excl. expenditures – Transfers on projects financed by loans from EIB <sup>2</sup> balance of budgetary chapter 397 – State Financial Asstes Operations

<sup>3</sup> on-lending to other states and enterprises with full state-backed guarantee on their core business

<sup>4</sup> cash reserve generated by bonds issues according to the Act No. 218/2000

<sup>5</sup> exchange rate changes due to re-evaluation of foreign currencies denominated debt and state debt amortization within budgetary chapter 396.

Source: MF

The net borrowing requirement is the first component of the gross borrowing requirement, which determines the magnitude of the state's borrowing operations in the given year. The second component consists of redemptions on the state debt in the given year and the buybacks and switches of government bonds before their original maturity.

### Table 6: Gross borrowing requirement and instruments for funding of the central government

mld. Kč (% HDP)	2009	2010	30. 6. 2011
Net borrowing requirement	178.2	168.2	72.2
Redemptions on state debt, incl. buy-backs and switches within a budgetary year	98.0	83.0	51.8
Redemptions on loans from EIB	0.8	1.1	0.6
Buy-backs and switches of bonds due in following years <sup>1</sup>	2.0	0.0	0.0
Redemptions on state debt, incl. buy-backs and switches within a budgetary year	0.0	0.2	0.8
Gross borrowing requirement	279.0 (7.7)	252.6 (6.8)	125.4 (3.4)
Net money market issuance <sup>2</sup>	9.4	25.1	27.8
Gross government bonds issuance <sup>3</sup>	257.7	217.1	97.0
Loans from EIB	11.9	10.4	0.6
Net loans from the State Treasury	0.0	0.0	0.0
Funding of borrowing requirement	279.0	252.6	125.4

<sup>1</sup> excl. operations with government bonds due within a budgetary year

<sup>2</sup> excl. revolving within a budgetary year

<sup>3</sup> nominal amount, ie. premia and discounts are included in net costs on state debt not entering net borrowing requirement.

Source: MF

**Net debt portfolio** reflects the state debt and state financial assets. The methodology defining individual items is stated in the "*The Czech Republic funding and Debt Management Strategy 2011*"

### Table 7: State and structure of net debt portfolio and financial sources of the State Treasury

	2009	2010	30. 6. 2011
CZK billion			
Gross state debt at the beginning of the period	1 178.2	1 344.1	1 412,9
Money market instruments	88.2	113.3	141.1
Medium-term and long-term bonds	1 031.6	1 163.2	1 204.3
Loans from EIB	57.9	67.2	67.2
Bills of exchange <sup>1</sup>	0.6	0.3	0.3
Short-term liabilities to the Treasury	0.0	0.0	0.0
State financial assets at the end of the period	102.2	113.9	123.3
Nuclear investment portfolio	13.5	15.1	16.3
Pensions investment portfolio	21.2	21.6	21.7
Special-purpose financial assets accounts	9.2	10.2	10.1
Lending and On-lending <sup>2</sup>	0.0	1.7	1.7
Financial reserve <sup>3</sup>	58.3	65.3	73.52
Net debt portfolio at the end of the period	1 076.0	1230.2	1 289.6

<sup>1</sup>.Bills of exchange to cover equity holdings of the Czech Republic with international financial institutions

<sup>2</sup>.lending to other states and to enterprises with full state-backed guarantee on the core business

<sup>3</sup> disposable cash balance build up by issuance of government debt according to the Act No. 218/2000. Section 35.

# 5 – Appendix

T-bond	Issue	Auction Date	Settle- ment date	Maturity date	Curre ncy	Offered Nominal Volume	Placed Nominal Volume
4.00/2017	51. Issue / 11. Tranche	6.4.	11.4.	11.4.2017	CZK	7 000 000 000	6 775 810 000
VAR/2023	63. Issue / 1. Tranche	13.4.	18.4.	18.4.2023	CZK	8 000 000 000	7 772 270 000
2.75/2014	62. Issue / 2. Tranche	27.4.	2.5.	31.3.2014	CZK	8 000 000 000	7 632 560 000
3.85/2021	61. Issue / 3. Tranche	11.5.	16.5.	29.9.2021	CZK	6 000 000 000	5 100 000 000
VAR/2016	55. Issue / 9. Tranche	25.5.	30.5.	27.10.2016	CZK	7 000 000 000	6 566 800 000
5.70/2024	58. Issue / 11. Tranche	8.6.	13.6.	25.5.2024	CZK	6 000 000 000	5 773 120 000
2.75/2014	62. Issue / 3. Tranche	22.6.	27.6.	31.3.2014	CZK	8 000 000 000	7 022 210 000
		Total			СZК	50 000 000 000	46 642 770 000

## Table 8a: T- bonds issue in 2<sup>nd</sup> quarter of 2011

\*3. issue based on EMTN (*Euro Medium Term Note*) CZK value

T-bond	Issue	Interest rate type	Average net price	Average Yield to Maturity	Bid-to- cover ratio	Competitive auction	Non- Competitive auction
4.00/2017	51. Issue / 11. Tranche	4.00 %	102.11	3.603	2.43	85 %	12 %
VAR/2023	63. Issue / 1. Tranche	VAR %	101.92	46.514 **	2.83	85 %	12 %
2.75/2014	62. Issue / 2. Tranche	2.75 %	100.68	2.502	3.47	85 %	10 %
3.85/2021	61. Issue / 3. Tranche	3.85 %	100.08	3.840	1.73	85 %	0 %
VAR/2016	55. Issue / 9. Tranche	VAR %	98.83	22.535 **	2.51	89 %	5 %
5.70/2024	58. Issue / 11. Tranche	5.70 %	118.61	3.848	2.21	87 %	9 %
2.75/2014	62. Issue / 3. Tranche	2.75 %	101.40	2.218	2.06	85 %	3 %
Average					2.50	86 %	7 %

\* 3. issue based on EMTN (*Euro Medium Term Note*) \*\* Spread to the benchmark rate in bps (*discounted margin*)

## Table 8b: Sells of T-bonds from the MF own portfolio in 2<sup>nd</sup> quarter of 2011

T-bond	Issue	Auction Date	Settle- ment date	Maturity date	Curre ncy	Placed Nominal Volume	Note
3.55/12	50. Issue	6.4	8.4.	18.10.2012	CZK	4 355 370 000	Issue to the Pension Reform Reserves account
4.00/17	51. Issue	7.4.	11.4.	11.4.2017	CZK	1 396 700 000	EIB
VAR/12	57.Issue	7.4.	11.4	11.4.2012	CZK	3 000 000 000	Issue to the Pension Reform Reserves account
4.00/17	51. Issue	19.4.	6.5.	11.4.2017	CZK	1 300 000 000	EIB
Total					10 052 070 000		

# Table 9: T-note issue in 2<sup>nd</sup> quarter of 2011

Issue No.	Maturity in (month)	Auction Date	Settle- ment date	Maturity date	Offered Nominal Volume	Placed Nominal Volume	Yield (% p.a.)
SPP 615	12	31.3	1.4.	30.3.2012	7 000 000 000	7 253 000 000	1.30
SPP 616	9	7.4	8.4	6.1.2012	6 000 000 000	5 975 000 000	1.26
SPP 617	3	28.4	29.4	29.7.2012	6 000 000 000	6 000 000 000	0.82
SPP 618	12	5.5	6.5	4.5.2012	7 000 000 000	8 390 000 000	1.38
SPP 619	9	12.5	13.5	10.2.2012	7 000 000 000	8 761 000 000	1.23
SPP 620	12	26.5	27.5	25.5.2012	8 000 000 000	9 320 000 000	1.33
SPP 621	3	2.6	3.6	2.9.2012	6 000 000 000	5 438 000 000	0.85
SPP 622	12	9.6	10.6	8.6.2012	8 000 000 000	9 519 000 000	1.29
SPP 623	9	23.6.	24.6.	23.3.2012	6 000 000 000	6 463 000 000	1.20
	Celkem				61 000 000 000	67 119 000 000	1.21*

\* Average weighted yield to maturity of the T-notes issues in 2. Quarter

## Table 10: Redemption and re-fixing profile of T-bond issues in 2<sup>nd</sup> Quarter 2011

T-bond	Volume	Average time to maturity at the issue date	Average time to maturity at 31. 12. 2011	Average time to re-fix at the issue date	Average time to re-fix at 31. 12. 2011	
Float	17 339 070 000	6.63	5.09	0.64	0.58	
Fix	39 355 770 000	6.31	6.98	6.31	5.68	
Total	56 694 840 000	6.22	5.53	6.42	5.77	

Note: Volume in CZK

Table 10 presents the overview of the redemption and re-fixing profile of the portfolio of Tbond issues. The average time to maturity at the issuing date represent T-bond maturity at the same time. Whereas average time to maturity at 31. 12. 2011 is related to the Ministry strategic target set as range 5.25 - 6.25 years of the average time to maturity of the debt portfolio. For more information about the strategic targets you are advised to consult "The Czech Republic Funding and Debt Management Strategy". Time to re-fix follows analogical approach. The strategic target is set as a range 5.25 - 6.25 years.

Measure (CZK mil)	Actual 1H/2010	Budget 2011		Actual	%	Index 2011/2010
		Approved	After changes	1H/2011	Execution	(%)
1	2	3	4	5	5:4	5:2
1. Total interest costs	26 841 (-) 5 633	71 286 (-) 5 336	70 674 (-) 5 336	29 746 (-) 3 983	42,1 74,6	110,8 70,7
Domestic debt	20 387 (-) 5 418	57 115 (-) 4 836	56 503 (-) 4 836	22 721 (-) 3 777	40,2 78,1	111,4 69,7
In that:						
Money market instruments	725 (-) 289	3 818 (-) 1 000	3 818 (-) 1 000	1 054 (-) 257	27,6 25,7	145,3 88,8
Government bonds	19 661 (-) 5 128	53 297 (-) 3 836	52 685 (-) 3 836	21 667 (-) 3 520	41,1 91,8	110,2 68,6
Foreign debt	6 455 (-) 215	14 171 (-) 500	14 171 (-) 500	7 025 (-) 204	49,6 40,8	108,8 94,6
In that:						
International issues	5 777 (-) 215	11 790 (-) 500	11 790 (-) 500	6 397 (-) 204	54,3 40,8	110,7 94,6
EIB loans	678	2 381	2 381	629	26,4	92,8
Short-term loans	-	-	-	-	-	-
Bank accounts	-			0 (-) 2		- -
In that:						
Bank accounts interests(+ paid received)	-	-	-	0 (-) 2	-	-
2. Total fees	58 (-) 0	700 -	700 -	41 (-) 0	5,9 -	70,8 0,5
3. Redemption	-	4	4	-	-	-
4. FX gain/loss	158 (-) 160	1 000 (-) 300	1 000 (-) 300	-	-	-
5. Transfers for projects	-	5 501	4 239	-	-	-
Total balance	27 058 (-) 5 794	78 491 (-) 5 636	76 617 (-) 5 636	29 788 (-) 3 983	38,9 70,7	110,1 68,7

# Table 11: Planned and actual budgetary expenditures and revenues on state debt in 1st half of2011

Note: (-) means revenues (gains).

The **net debt service costs** on the state debt in the second quarter 2011 amounts **CZK 25.8 billion**. Accrued interest income and government bonds premiums achieve CZK 3.6 billion and financial investments on the money market gain CZK 0.3 billion. The gross debt service costs reached CZK 29.8 billion.

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This publication is available also on the website: www.mfcr.cz/statedebt

The next issue of Quarterly Review will be published on 10<sup>th</sup> of October at 2.00 p.m.

## Further information:

Aleš Maršál, Head of Risk Management and Portfolio Strategy Debt and Financial Assets Management Department MF ČR Letenská 15. 118 10 Praha 1 Phone: 257 042 456. e-mail: ales.marsal@mfcr.cz. Reuters **<MFCR>**