Central Credit Responsibility Database - Firm Level - Data Manual

Extraction Date: June 2019
Manual Date: 11 January 2021

Abstract: The Central Credit Responsibility (CCR)/Central de Responsabilidades de Crédito (CRC) database reports credit supply by all credit-granting institutions in Portugal. Data is collected monthly with the objective of supporting participants in the risk assessment of the concession credit. Although Banco de Portugal collects information at the credit exposure level, the microdata available to external researchers consists of a set of files with data aggregated at the firm level from 1999. The dataset is updated annually.

Keywords: Credit outstanding, firm level, credit-granting institutions, bank relationship, revisions.

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 $^{^1\}mathrm{Some}$ institutions which do not grant credit but $Banco\ de\ Portugal$ sees as relevant are also included in the CCR (for example restructuring funds). For more information contact bplim@bportugal.pt.

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General Information

Data Type: Longitudinal Data

Unit of Analysis: Firm

Frequency: Monthly

Start Date: January, 1999

Most Recent Date: August, 2018

Reference Date: The last day of a month

Data Organization: There is a single file that contains firm-level generic information (COVER) and yearly files that contain monthly information on credit outstanding & bank relationship (COBR) for each firm. All data files are available in Stata format.

Version of the Data: The data made available by BPLIM corresponds to a data freeze at a certain time of the year. Therefore, all files contain the information as reported in the extraction date. The most recent update of the data occurred in April 2019.

Languages Available: variables labels are available in English.

 ${\tt Data\ Access:}$ This data set is available to external researchers under certain conditions. 2

Digital Object Identifier: 10.17900/CRC.FRM.Jun2019.V1.

 $^{^2}$ Conditions for data access for external researchers are detailed in the disclosure control regulation.

Geographical Coverage

CCR includes all firms operating in mainland Portugal and autonomous regions - Azores and Madeira.

Population

The Central Credit Responsibility (CCR) database collects and aggregates the data on the indebtedness of borrowers as reported by credit-granting institutions (institutions operating in Portugal or foreign branches of Portuguese banks). All credit obligations above the reporting threshold are included, regardless if the credit is in good standing or in situations of non-compliance.³ Although *Banco de Portugal* collects information at the credit exposure level, the micro data available to external researchers only consists of a set of files with data aggregated at the firm level. Private persons and individual entrepreneurs are therefore excluded.

The entities participating in CCR include: banks, saving banks, mutual agricultural credit banks, financial credit institutions, leasing companies, factoring companies, securitization companies, mutual guarantee societies, and financial companies for credit acquisitions. Note that some financial institutions in Portugal have experienced acquisitions and/or mergers, which induced credit flows from one institution to another. The list of participating entities have therefore changed over time. The current list can be found here.

Methodology

Although Banco de Portugal collects information at the credit exposure level, only data aggregated at the firm level is made available to external researchers. These firm level datasets were constructed using the exposure level data extracted from Banco de Portugal's CCR database.

The CCR has undergone some major revisions. Due to these revisions, there are some series breaks that may affect analysis. Of particular relevance is the revision in 2009, framed by Decree-Law no. 204/2008, of October 14, which streamlined the coding for a number of categorical variables and included data on maturity of loans, overdue loan class, collateral and special characteristics for the first time.⁴ To make the variables compatible over time, we have adopted necessary steps to harmonize the data. Available variables and their construction methods are detailed in the section "Description of Variables".

 $^{^3{\}rm The}$ current mandatory loan registration threshold in Portuguese credit register is 50 euros. It was 10 euros from 1999 to 2008.

⁴Please refer to the legislation section for a detailed discussion.

Further, additional cleaning is conducted. In particular, the values that were reported in different scales and in other currencies were converted to euros. Therefore, regardless of the denominated currency, the value of the exposure is always expressed in euros. To preserve consistency credit granted to Portuguese firms by foreign banks and credit granted to foreign firms were removed.

To preserve confidentiality, firm identifications are anonymized and the credit outstanding variables are perturbed. The figure below explains how we construct the firm-level COBR file from the exposure-level data.

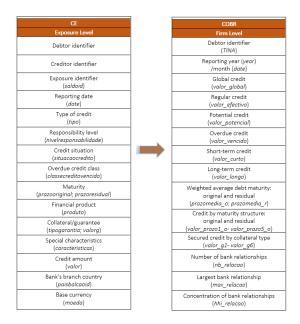


Figure 1: Figure 1: Aggregation of exposure level data to firm level data

Description of Files

Firm-level generic information is organized in the cover sheet (COVER) file. Each row corresponds to a firm for the information period.

The data file has the following nomenclature:

 $CRC_A_FRM_MMMYY_COVER_V01.dta$

where MMMYY is the extraction month.

The firm level CCR data is organized in the credit outstanding & bank relationship (COBR) file. The data is reported at the monthly frequency and each row corresponds to a firm in a given month.

The monthly data files are appended to yearly dataset with the following nomenclature:

CRC P_MFRM_YYYY_MMMYY_COBR_V01.dta

where YYYY is the reporting year; MMMYY is the extraction month.

Some variables are only calculated after 2009, for example, weighted average debt maturity (original and residual). Examples are illustrated in Appendix.

Description of Variables

A. Cover Sheet

Below we provide a general description of the variables included in the Cover Sheet (COVER). For a full account of all variable categories and changes over time see "Auxiliary Files" section.

• Legal form

Firm's legal form.

Abbreviation	Definition
natjur	Legal form

Availability: January, 1999-August, 2018

For a complete list of codes, see the auxiliary file var_crc.html

• Classification of economic activities

Firm's main sector of activity. The criteria to define the main sector of activity is the gross value added at factor cost. When it is not possible to use this information to define the main sector of activity, firms are requested to use turnover or the number of people permanently employed by the firm. From 2006 to 2008, firms reported the code of "The Portuguese Classification of Economic Activities - Revision 2.1" (CAE Rev. 2.1) at the highest level of disaggregation. Since 2009, firms report their main activity according to the "The Portuguese Classification of Economic Activities - Revision 3" (CAE Rev. 3). The Statistics Department of Banco de Portugal provides the information on the main sector of activity according to both classifications CAE Rev2.1 and CAE Rev3 whenever possible and the classifications are harmonized over time. The source of this information is the CAE registered in the "Central Registry of Companies" for each company. Whenever the correspondence is not unique, the match between codes CAE Rev. 2.1 and CAE Rev. 3 is implemented based on the highest

frequency of the matches.⁵

Abbreviation	Definition
cae21	Portuguese classification of Economic activities (version 2.1).
cae3	Portuguese classification of Economic activities (version 3).

Availability: January, 1999-August, 2018

For a complete list of codes, see the auxiliary file var_crc.html

• Geographical location

Firm's geographical location (district and municipality in which a firm is located).

Abbreviation	Definition
district	District Municipality
municipality	Municipality

Availability: January, 1999-August, 2018

For a complete list of codes, see the auxiliary file var crc.html

• Institutional sector

Firm's institutional sector. The algorithm to allocate a firm to a specific institutional sector is based on the classification of economic activity, the name of the firm and other variables available at *Banco de Portugal*. Therefore, in some cases the institutional sector may not be in line with the sector of economic activity.

Abbreviation	Definition
si si final	Institutional sector (SEC 95) Institutional sector (SEC 2010)

Availability: January, 1999-August, 2018

For a complete list of codes, see the auxiliary file var_crc.html

• Information date

The start date and end date of the identified information

 $^{^5}$ For more information on firm's sector of activity please see SICAE Website

Abbreviation	Definition
$mindate \\ maxdate$	Start date of the information End date of the information

Availability: January, 1999-August, 2018

B. Credit Outstanding and Bank Relationships

Below we provide a general description of the variables included in the credit outstanding & bank relationship (COBR) file. For a full account of all variable categories and changes over time see "Auxiliary Files" section.

• Firm identifier

Unique identifier that enables tracking borrowing firms over time. *tina* is the anonymized tax identification number, available in all files. In the original credit exposure data, Portuguese firms are identified by the tax identification number (NIPC). *Banco de Portugal* control the credibility of debtor identification in CCR by cross-checking other sources to ensure that the identification exists and is valid. It should also be noted that reporting to CCR does not depend on the nationality of the debtors but their country of residence.⁶

Abbreviation	Definition
\overline{tina}	Anonymized firm identifier

Availability: January, 1999-August, 2018

• Reference date

The reference month of the data

Abbreviation	Definition
\overline{date}	Reference month of the data.

Availability: January, 1999-August, 2018

• Global Credit

The credit outstanding variables characterize the amount outstanding according to a variety of dimensions.

 $^{^6}$ For instance, the file of the tax payers' identification numbers managed by the Tax and Customs Authority (TA) and the national file of Collective Persons (FNPC) managed by the Ministry of Justice are often cross-checked to ensure consistency.

Global credit is the sum of regular credit and potential credit, representing the total available credit that a firm accesses.

Abbreviation	Definition
$\overline{valor_global}$	Total available credit that a firm can
	access

Availability: January, 1999-August, 2018

• Regular Credit

Regular credit is credit effectively used in a regular or overdue situation, i.e., without payment delays as defined in the respective contract.

Abbreviation	Definition
valor_efectivo	Credit that a firm used effectively

Availability: January, 1999-August, 2018

Examples of effective credit

Loans for the acquisition of financial instruments (shares, bonds, etc.)

Discount and other credits secured by effects

Overdrafts on bank accounts

Leasing and factoring

Used amounts of credit cards

• Potential Credit

Potential credit represents irrevocable commitments of the participating entities.

Abbreviation	Definition
$valor_potencial$	Credit that a firm can access because of irrevocable commitments of the participating entities

Availability: January, 1999-August, 2018

Examples of potential credit

Unused amounts of credit cards

Lines of credit

Guarantees provided by participating entities

Guarantees and guarantees given in favor of the participating entities

Any other credit facilities likely to be converted into effective debts

Banco de Portugal requires all credit-granting institutions to report to the CCR their outstanding loan exposure by instrument of all irrevocable credit obligations. There is one important exception of an institution which stopped reporting revocable credit card obligations in May 2013, causing a break in the data.

• Overdue Credit

All outstanding credit exposures recorded as non-performing (including overdue, written off, renegotiated credit, overdue credit in litigation, and written off credit in litigation) are aggregated to calculate overdue credits. It includes principal, interest and related fees.

For written-off credits, participating entities also have the discrepancy to file the written-off credit in court and classify the credit as "written-off credit in litigation". Similarly, the classification occurs from the initialization of the legal proceedings until the final decision.

Abbreviation	Definition
$valor_vencido$	Non-performing credit of a firm

Availability: January, 1999-August, 2018

Overdue Credit Type	
Overdue Credit	Credit exposure that remains unpaid past the due maturity date.
Written-off	Credit exposure that has become seriously delinquent and
Credit	the creditor has given up on being paid.
Renegotiated	Credit exposure that is overdue and has been renegotiated
Credit	without additional collateral.
Overdue Credit	Overdue credit that is filed in court. The classification
in Litigation	starts from the initialization of the legal proceedings and
	ends after the final decision.
Written-Off	Written-off credit that is filed in court. Similarly, the
Credit in	classification should occur since the initialization of the
Litigation	legal proceedings until the final decision.

• Short-term Credit

Short-term credit is calculated using two different definitions.

In the first place, short-term credit is defined based on the term-to-maturity as agreed in the credit contract, denoted by $valor_curto_o$. Specifically, short-term credit has an original maturity of equal to or less than one year. Before 2009, the CCR dataset did not streamline credit exposure based on the maturity

structure. Therefore, for the data before 2009, the short-term credit is defined as the aggregation of commercial credit, discount funding, and other short-term funding, which are short-term funding by their nature.

In the second place, short-term credit is defined based on residual maturity – the remaining time until the expiration or the repayment of the instrument, denoted by *valor_curto_r*. Specifically, it is credit with a residual maturity of equal to or less than one year. This variable is only available from 2009.

Note that potential credit is excluded for both calculations.

Abbreviation	Definition
$valor_curto_o$	Credit with an original maturity of less than or equal to 1 year
$valor_curto_r$	Credit with a residual maturity of less than or equal to 1 year

Availability: January, 1999-August, 2018 for *valor_curto_o*; January, 2009-August, 2018 for *valor_curto_r*

• Long-term Credit

Similar to short-term credit, long-term credit is defined based on original and residual maturities.

More precisely, long-term credit is credit with an original or residual maturity of more than one year, denoted by $valor_longo_o$ and $valor_longo_r$, respectively.

Long-term credit defined on an original maturity basis (valor_longo_o) for the data before 2009 is the aggregation of total credit excluding commercial credit, discount funding, and other short-term funding.

Note that potential credit is excluded for both calculations.

Abbreviation	Definition
$valor_longo_o$	Credit with an original maturity of more than 1 year
$valor_longo_r$	Credit with a residual maturity of more than 1 year

Availability: January, 1999-August, 2018 for *valor_longo_o*; January, 2009-August, 2018 for *valor_longo_r*

• Weighted average debt maturity

To provide an overall picture of a firm's rollover risk, we compute the weighted average debt maturity. These variables are only available after 2009.

Abbreviation	Definition
$prazomedia_o$	The weighted average original debt maturity
$prazomedia_r$	The weighted average residual debt maturity

Availability: January, 2009-August, 2018

All credit exposures reported in the CCR after 2009 are classified based on their original maturity, established in contractual terms, and residual maturity, defined as the time interval between the reference date and the maturity date of the credit agreement. In other words, the original term of the credit characterizes the exposure in relation to the maturity that was contracted for the full repayment of the credit, while the residual term of the credit characterizes the exposure in relation to the maturity between the date to which the communication refers and the date contracted for the full amortization of the credit.

These two variables are defined in ranges, including a category "Undetermined" (code 1) which is used to characterize credit exposures which, by their nature, do not have a contractually defined maturity or for which it is not possible to determine a due date. In addition, the reporting of debt maturity has undergone a major change in classification in December, 2013. For example, the maturity class "1 to 5 years" (code 5) is only valid between January, 2009 and November, 2013. From December 2013, this category is replaced by the maturity class codes 51-54. The same applies to the maturity class "5 to 10 years" (code 6 replaced by codes 61-65), and the maturity class "10 to 20 years" (code 7 replaced by codes 71 and 72).

Due to these specificities, we adopt the following procedure.

Firstly, we harmonize the debt maturity information after December, 2013 using the classification of September, 2009 as the latter is less disaggregated than the former.

Secondly, we assign the midpoint maturity for each maturity classification (0.5 years for maturity less than or equal to 1 year; 3 years for more than 1 year and less than or equal to 5 years; 7.5 years for more than 5 year and less than or equal to 10 years; 15 years for more than 10 year and less than or equal to 20 years; 22.5 years for more than 20 year and less than or equal to 25 years; 27.5 years for more than 25 year and less than or equal to 30 years). We assign an average value of 40 years for credit maturing in more than 30 years.

Thirdly, we calculated the average debt maturity, weighted by the credit outstanding with the corresponding maturity.

Lastly, we reassign a maturity class to the calculated weighted average maturity value:

Maturity Class	Definition
1	Credit with a calculated weighted average
	maturity of less than or equal to 1 year
2	Credit with a calculated weighted average
	maturity of more than 1 year and less than or equal to 5 years
3	Credit with a calculated weighted average
	maturity of more than 5 years and less than or equal to 10 year
4	Credit with a calculated weighted average
	maturity of more than 10 years and less than or equal to 20 year
5	Credit with a calculated weighted average maturity of more than 20 year

• Credit by maturity structure

For the data after 2009, we breakdown the amount of credit using various maturity classifications, as illustrated below.

Abbreviation	Definition
$\overline{valor_prazo1_o}$	Credit with an original maturity of less than
	or equal to 1 year
$valor_prazo2_o$	Credit with an Original maturity of more than
	1 year and less than or equal to 5 years
$valor_prazo3_o$	Credit with an Original maturity of more than
	5 years and less than or equal to 10 year
$valor_prazo4_o$	Credit with an Original maturity of more than
	10 years and less than or equal to 20 year
$valor_prazo5_o$	Credit with an Original maturity of more than
	20 year

Availability: January, 2009-August, 2018

Abbreviation	Definition
$valor_prazo1_r$	Credit with a residual maturity of less than or equal to 1 year
$valor_prazo2_r$	Credit with a residual maturity of more than 1 year and less than or equal to 5 years
$valor_prazo3_r$	Credit with a residual maturity of more than 5 years and less than or equal to 10 year
valor_prazo4_r	Credit with a residual maturity of more than 10 years and less than or equal to 20 year

Abbreviation	Definition
valor_prazo5_r	Credit with a residual maturity of more than 20 year

Availability: January, 2009-August, 2018

• Secured credit by collateral type

For the data after 2009, we calculate the amount of secured credit broken down by collateral type.

Abbreviation	Collateral Type
valor_g1	Credit secured by real collateral mortgaged
$valor_g2$	Credit secured by real collateral not mortgaged
$valor_g3$	Credit secured by financial collateral
$valor_g4$	Credit secured by personal guarantee provided by
	firm or individual
$valor_g5$	Credit secured by personal guarantee granted by
	the state or financial institution
$valor_g6$	Credit secured by other guarantees

Availability: January, 2009-August, 2018

We measure bank relationships in three dimensions: number of bank relationships, largest relationship, and the concentration of bank relationship. We consider that a firm maintains a relationship with a bank using all available credit (including unused credit).

• Number of bank relationships

This variable measures the size of a firm's bank relationships. Precisely, we calculate the number of active bank relationships, i.e., the number of banks from whom a firm is able to borrow in a specific month. It means that unused credit is also taken into account in the calculation of bank relationships.

• Largest bank relationship

This variable features the borrowing from a firm's major bank. It is measured as the percentage of a firm's available credit from the major bank to the firm's total available credit.

• Concentration of bank relationships

The concentration of bank relationship is calculated using the Herfindahl–Hirschman Index as the sum of the squares of the bank lending share for a firm.

Abbreviation	Definition
nb_relacao	The number of active bank relationships of a firm
$max_relacao$	The largest bank relationship (in percentage term) of a firm
hhi_relacao	The concentration of a firm's bank relationships

Basic Descriptive Statistics

Table 1- Number of firms over the data period (year-end) in the credit outstanding & bank relationship file 7

```
global path1 "Z:/data/Products/CRC/2018_04/CRC_Annual/Output/Data/Firms/"
global path2 "Z:/data/Products/CRC/2017_04/CRC_Annual/Output/Data/Firms/"
global path3 "Z:/data/Products/CRC/2019_04/CRC_Annual/Output/Data/Firms/"

quietly use "${path3}/2018/External/CRC_A_MFRM_2018_APR19_COBR_VO1.dta", clear
quietly append using "${path1}/2017/External/CRC_A_MFRM_2017_APR18_COBR_VO1.dta"
quietly keep if (year(dofm(date))<2018 & month(dofm(date))==12) | (year(dofm(date))==20)

quietly forval i =1999/2016 {
   quietly append using "${path2}/`i'/External/CRC_A_MFRM_`i'_APR17_COBR_VO1.dta"
   quietly keep if (year(dofm(date))<2018 & month(dofm(date))==12) | (year(dofm(date))==20)

quietly gen Year= year(dofm(date))
quietly sort tina Year
table Year, contents(freq) center</pre>
```

Legislation

Variable definitions changed over time. Some variables, for instance, credit situation (situacaocredito), maturity (prazooriginal and prazoresidual), and collateral type (tipogarantia) have undergone major changes in classification, as framed by Banco de Portugal's instructions. It is important to note that even small changes may require a infrastructural update on the part of the participating financial entities, possibly leading to a gradual implementation of the instruction even though legally all the entities should implement the instructions at the same time. Below is a list of relevant legislations:

 $^{^7{}m The}$ credit outstanding & bank relationship data is only available until August, 2018 due the transition from CCR to AnaCredit.

- Decree-Law no. 47909/1967, September 7 and Decree-Law no. 48731/1968, December 4 established the service of centralizing and disseminating credit risk information and defines its purpose and operation, given the need of credit and other financial institutions to properly assess the risks of their operations.
- Carta Circular no 29/96/DOC, September 18 eliminated credit classes associated with *empréstimos de poupança-crédito*, which are now classified as *empréstimos de poupança-emigrante* (the conversion of savings-credit loans into savings-immigrant loans).
- Decree-Law no. 5/1998, January 31 amended the Organic Law of Banco de Portugal, with a view to its integration into the European System of Central Banks.
- Decree-Law no. 67/1998, October 27 transposed the Directive 95/46/CE of the European Parliament and the Directive of the Council in 24-10-1995 on the protection of individuals in processing and circulating data.
- Instrução no. 16/2001 reviewed the separation of potential from actual amounts of credit.
- Instrução no. 11/2002 establishment of a 90 day period to register a credit exposure (sem direito de regresso) or overdue credit (com direito de regresso) after invoices are due; revocable commitments (code 921) are no longer reported as a credit of type 6 (off balance sheet commitments); factoring credit more than 90 days overdue reported as type 7 (non-performing credit) or 8 (credit in litigation). Participating entities are encouraged to provide relevant information for credit risk assessment. In addition, renegotiated credits are requested to be reported since July, 2001.
- Instrução no. 15/2002 made procedural changes to access and occasional communication requested by the Banco de Portugal (no analysis impact).
- Decree-Law no. 53/2004, March 18 integrated the information on court decisions regarding insolvency proceedings of collective or individual people, provided by the Ministry of Justice, following the approval of the CIRE Insolvency Code.
- Instrução no. 7/2006 created new types of credit for the variable type (codes 11-14) which include guarantees, sureties, and credit communicated by foreign central banks.
- Instrução no. 21/2008 changed the CCR to its current format (as in *Caderno* da CCR) and defined the scope, reporting deadline, and stress the important of reporting the types of information. Some codes were significantly changed.

- Instrução no. 7/2009 included credit reports from the State to protect unemployed individuals' real estate ownership and created a special classification for these credits. This revised version contains more loan-level variables. Another important consequence of the revision was the incorporation of loans to Portuguese firms granted by foreign branches of Portuguese banks.
- Instrução no. 18/2010 imposed mandatory reporting of credit less than 90 days overdue (*crédito sem recurso*) if used in guarantee pools in Eurosystem operations; excluded shareholder's advances (*suprimentos*) from financial institutions; imposed mandatory reporting of securitized debt issued for a certain debtor (even if the financial institution does not have ownership) and exclusion of securitized debt in the exposure sheet of the institution.
- Instrução no. 17/2013 separated overdue and written-off credit in litigation codes 6 and 7; added new maturity categories and new collateral classifications

Citation of this dataset

Banco de Portugal Microdata Research Laboratory (BPLIM) (2019): Central Credit Responsibility Database - Firm Level Data. Extraction: June 2019. Version: V1. BANCO DE PORTUGAL. Dataset. https://doi.org/10.17900/CRC.FRM.Jun2019.V1

Auxiliary Files

For a description of each variable in each dataset (name, unit of measurement, data and storage type, format, year of first and last observation), an account of the changes occurred over time, summary statistics for each dataset and a codebook for each dataset, please check the following auxiliary files:

Data File	Description of Variables	Summary Statistics	Codebook	Dataset description
Central Credit Re- sponsibility Firm (CCR_FRM)	var_crc.html	stat_crc.html	cdbk_crc.html	dscr_crc.html

The Summary Statistics, Codebook and Dataset Description files are available

on BPLIM's servers.

Useful Links

CCR home page

Statistical Bulletin

Useful Ado Files

A. Construction of Firm Default Profile

Description

default is a Stata user-written command to help calculate default events using information from the datasets.

Syntax

default panelvar timevar overduevar benchmarkvar, [options]

where panelvar is a unit identifier for the panel, timevar identifies the time variable, overduevar identifies the variable of total overdue credit and benchmarkvar identifies the benchmark variable with which one can calculate the overdue intensity.

General Options

THRESHOLD: a pre-determined threshold of overdue credit ratio, 0.025 by default.

RUNS: a sequence/run of consecutive threshold hits for the same individual, 3 by default.

IGNOREGAP: allow gaps in the data when counting runs.

Generated Variables

Firm default variables are constructed based on the default definition of Antunes, Gonçalves and Prego (2016). By default, we flag out firm-month observations when more than 2.5% percent of total credit is reported overdue and define default event if a firm is flagged up for at least three consecutive months. For example, if a firm has overdue credit that amounts to more than 2.5% of its total credit in January and February, 2015 but later paid off the overdue credit in March, 2015, the firm will not be considered as in default in January and February, 2015. Researchers can also choose to apply an alternative threshold for the overdue credit ratio or/and an alternative duration of overdue status.

The variables generated include:

• Overdue credit flag (_flag). This is an indicator for the existence of overdue credit. It takes the follow values:

0 - no credit is past due at the time

- 1 overdue credit is present but below the threshold
- 2 overdue credit is above the threshold
 - Default event (_default). The default event occurs when a firm has credit overdue above the threshold for a run of defined consecutive months (three months by default).
 - First default event (_fdefault). The first default event occurs (flagged out with the value of 1) when a firm has credit overdue above the threshold for a run of defined consecutive months for the first time.

B. Aggregation

Description

aggregate is a Stata user-written command to help compute aggregates of credit and bank relationship at different frequencies (yearly and quarterly) using various methods (period-end or period average). By default, the ado should only be applied to the original datasets prepared by BPLIM.

Syntax

aggregate panelvar timevar, [options]

where panelvar is a unit identifier for the panel and timevar identifies the time variable.

General Options

YEAR: aggregation by year.

QUARTER: aggregation by quarter.

AVG: period average.

END: period end.

NOCHECK: ignore the difference between the current dataset and the original dataset prepared by BPLIM.

Frequently Asked Questions

The most frequently asked questions can be found here. If you have a question that is not covered in this manual, please send an email to bplim@bportugal.pt.

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Appendix

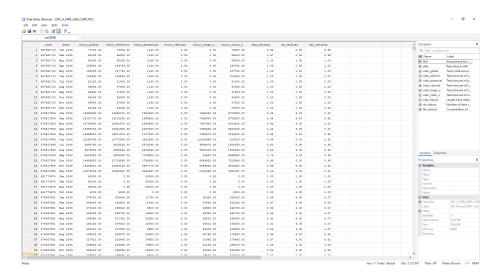


Figure 2: Appendix 1: Monthly credit outstanding at firm level: before 2009

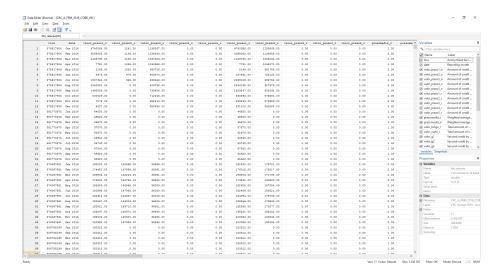


Figure 3: Appendix 2: Monthly credit outstanding at firm level: after 2009

Footnotes