



CBACT04C-cbl-0.4.4

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Table of Contents

- 1 High Level Overview Of This Program..... 3
 - 1.1 Program Name..... 3
 - 1.2 Main Purpose..... 3
 - 1.3 Business Context..... 3
 - 1.4 Key Features..... 3
 - 1.5 Input Output..... 3
 - 1.6 Integration..... 4

Documentation

1. High Level Overview Of This Program

1.1. Program Name

CBACT04C

1.2. Main Purpose

The main purpose of CBACT04C is to calculate interest for credit card accounts. It processes transaction category balances, computes interest based on account-specific rates, and generates interest transactions.

1.3. Business Context

This program operates in the context of a credit card processing system, specifically in the financial calculations and account management domain. It is part of the interest calculation and posting workflow, which is a critical component of credit card account management and billing processes.

1.4. Key Features

1. Transaction Category Balance Processing: The program reads transaction category balances from the TCATBAL-FILE (FD-TRAN-CAT-BAL-RECORD) sequentially.
2. Account Information Retrieval: For each unique account, it retrieves account details from the ACCOUNT-FILE (ACCOUNT-RECORD) and cross-reference information from the XREF-FILE (CARD-XREF-RECORD).
3. Interest Rate Determination: It fetches the appropriate interest rate from the DISCGRP-FILE (DIS-GROUP-RECORD) based on the account group and transaction category.
4. Interest Calculation: The program calculates monthly interest (WS-MONTHLY-INT) for each transaction category balance using the retrieved interest rate.
5. Interest Transaction Generation: It creates interest transactions and writes them to the TRANSACT-FILE (TRAN-RECORD).
6. Account Balance Update: After processing all transaction categories for an account, it updates the account balance in the ACCOUNT-FILE to reflect the total interest (WS-TOTAL-INT) calculated.

1.5. Input Output

Input Tables:

N/A

Output Tables:

N/A

Input Files:

1. TCATBAL-FILE: Contains transaction category balances for each account. This file provides the base amounts on which interest is calculated.
2. XREF-FILE: Stores cross-reference information linking card numbers to account IDs. It's used to retrieve the card number associated with each account.
3. DISCGRP-FILE: Contains interest rate information for different account groups and transaction categories. This file is crucial for determining the correct interest rate to apply.
4. ACCOUNT-FILE: Stores account information including current balances. It's read to get account details and updated with new balances after interest calculation.

Output Files:

1. TRANSACT-FILE: The program writes generated interest transactions to this file. Each record represents an interest charge for a specific account and transaction category.
2. ACCOUNT-FILE: This file is also an output as the program updates account balances with the calculated interest.

Miscellaneous Input:

1. EXTERNAL-PARMS: Contains the processing date (PARM-DATE) used for generating transaction IDs.

Miscellaneous Output:

1. Display messages: The program outputs various status and error messages to the console for monitoring and debugging purposes.

1.6. Integration

This program does not interact with any external systems beyond the files it processes. It operates as a standalone batch process within the credit card processing system.