Speed Demon

Working with Speed Demon

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What is Speed Demon?

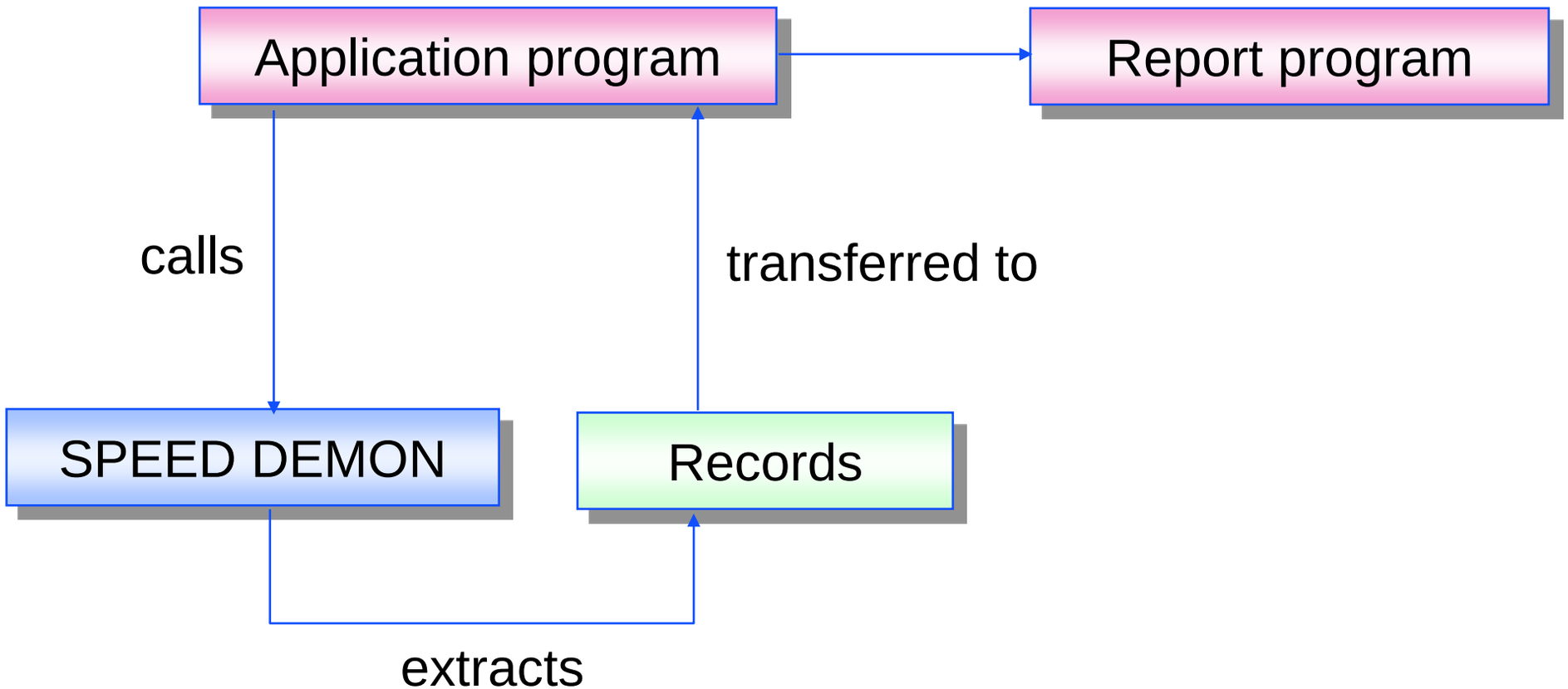
Speed Demon

- Reads records sequentially
- Same as serial DBGET for user programs
- Useful when you want to extract more than 50% of a dataset
- Works best in 3G languages, such as COBOL, Pascal and FORTRAN

Comparing Speed Demon and Suprtool

- Suprtool is a stand-alone utility program
  - Selects, sorts, and extracts records
  - Puts extracted records in an output file
  - Output is available to application programs for further processing
- Speed Demon is an intrinsic library
  - Extracts records
  - Cannot select or sort records
  - Moves extracted records directly to the application program

Extracting records



Versions of Speed Demon

- Compatibility mode (CM) version on MPE V
  - Faster than DBGET
  - Slower than Suprtool
  - Uses a small amount of stack space
- Native mode (NM) version on MPE/iX
  - Faster than DBGET
  - As fast as Suprtool

Speed Demon intrinsics

- SPDEDBINIT selects dataset and field list
- SPDEDBSCAN replaces calls to DBGET mode-2
- SPDEDBSHUT cleans up after dataset scan
- SPDEEXPLAIN prints error messages

SPDEDBSCAN replaces DBGET mode-2

SPDEDBSCAN intrinsic

- Has similar parameters to DBGET, but without NO SET, MODE or LIST options
- Must call SPDEDBINIT before SET and LIST
- Mode-2 serial access is always assumed

SPDEDBINIT selects dataset and field list

SPDEDBINIT intrinsic

- Mode-1 returns the entire record
- Mode-2 allows you to specify a list of field names
- Required before each SPDEDBSCAN
- Scans only one dataset at a time
- Requires database opened with DBOPEN command

SPDEDBINIT in mode-1 returns complete record

- Call "SPDEDBINIT" using db-base
  db-set-d-sales
  db-mode-1
  db-status-area
  spde-db-control
  db-dummy-arg.

```
01 spde-db-control.
   05 spde-db-version    pic s9(4) comp value 0.
   05 spde-db-buffer     pic s9(4) comp value zeroes.
   05 spde-filler        pic x(20) value spaces.
```

SPDEDBINIT in mode-2 returns specific fields

- Speed Demon accepts all valid TurboIMAGE field lists except “*” list

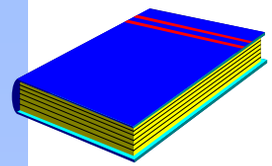
- **Move "CUST-ACCOUNT,PRODUCT-NO, PRODUCT-PRICE;" to db-list-d-sales.**

- **Call "SPDEDBINIT" using db-base**
  db-set-d-sales
  db-mode-2
  db-status-area
  spde-db-control
  db-list-d-sales.

SPDEDBSHUT cleans up after DBSCAN

SPDEDBSHUT intrinsic

- Mode-1 closes the database
- Mode-2 closes the database and prints a performance report
- If omitted, will cause next SPDEDBINIT to fail
- **`Call "SPDEDBSHUT" using db-base`**
  `db-set-d-sales`
  `db-mode-1`
  `db-status-area`
  `spde-db-control`
  `db-dummy-arg.`



Summary

- Replacement for DBGET mode-2
- Intrinsics