

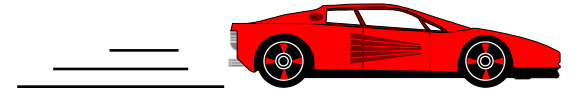


# *Speed Demon*

## **Working with Speed Demon**

Page

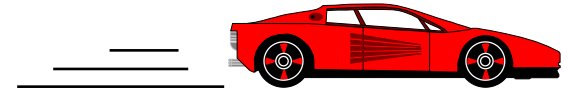
- What is Speed Demon? 2
- Speed Demon versus Suprtool 3
- Speed Demon intrinsics 6
- SPDEDBSCAN 7
- SPDEDBINIT 8
- SPDEDBSHUT 11



# *What is Speed Demon?*

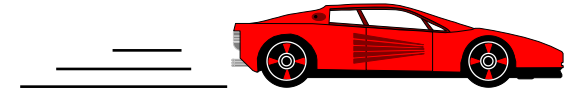
## Speed Demon

- 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

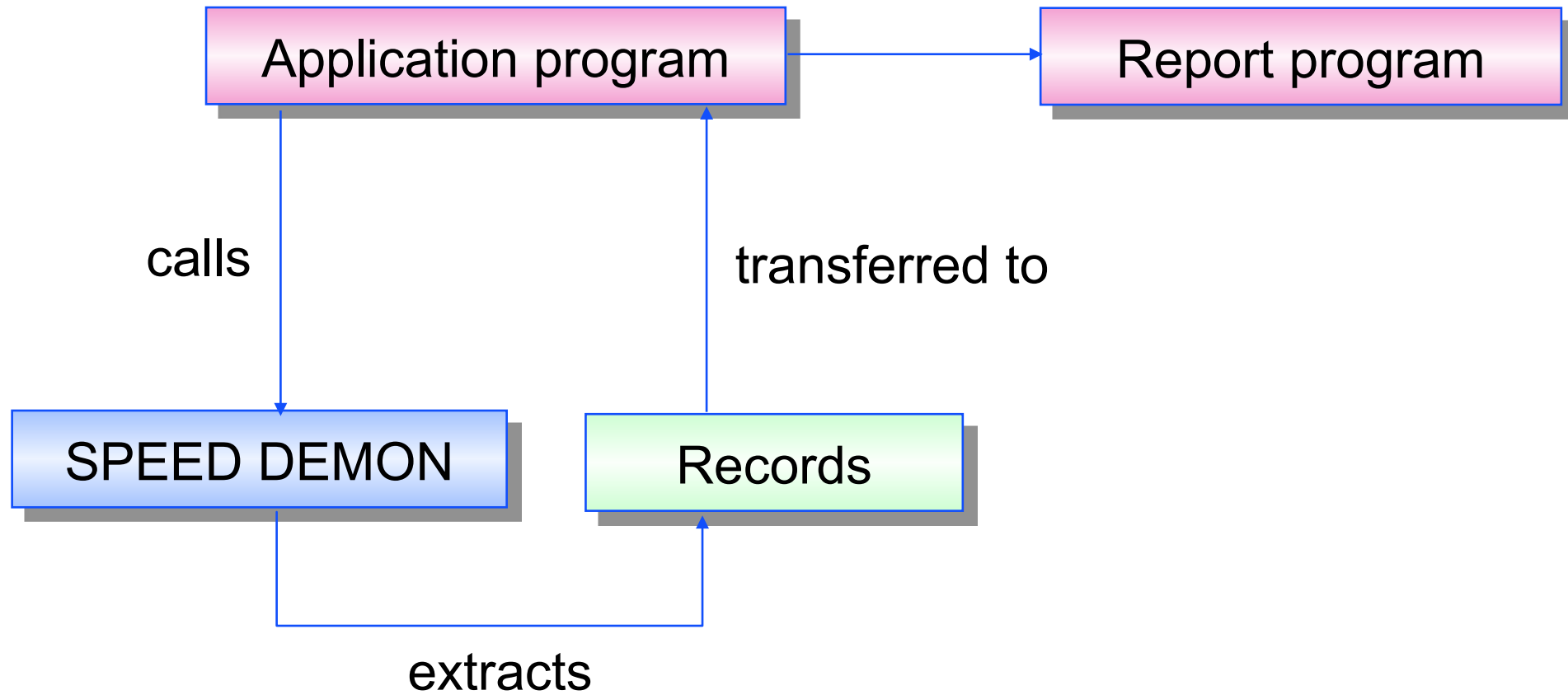


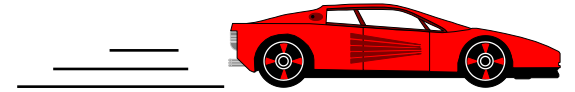
# Comparing Speed Demon and Suprtool

- 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



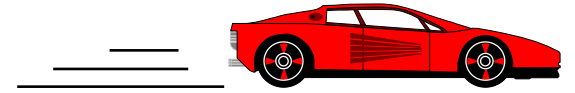
# Extracting records





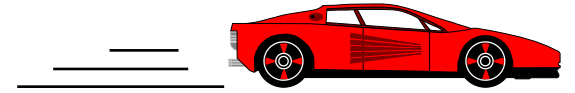
## *Versions of Speed Demon*

- 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*

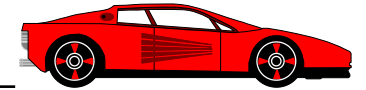
- SPDEDBINIT selects dataset and field list
- SPDEDBSCAN replaces calls to DBGET mode-2
- SPDEDBSHUT cleans up after dataset scan
- SPDEEXPLAIN prints error messages



## ***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.
```

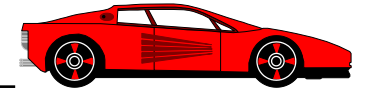
```
01 spde-db-control.
```

```
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*



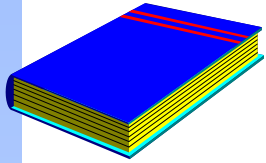
- Speed Demon accepts all valid TurboIMAGE field lists except "\*" list
- Move "CUST-ACCOUNT, PRODUCT-NO, PRODUCT-PRICE;" to db-list-d-sales.
- Call "SPDEDBINIT" using db-base
  - db-set-d-sales
  - db-mode-2
  - db-status-area
  - spde-db-control
  - db-list-d-sales.



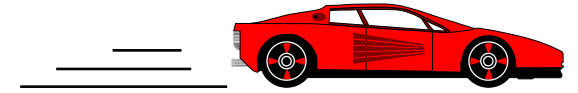
# *SPDEDBSHUT cleans up after DBSCAN*

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
- Intrinsic

