

DICER

Version 1 Release 2 Modification 0
Enhancement Summary
Program Number 2A55-DCR

First Edition (January 2004)

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Installation Instructions

Restoring the new release

Read the Enhancement Summary to determine if any changes affect your installation. To install Ver 1 Rel 2 Mod 0, sign on as the security officer.

1. Verify that your machine is at OS/400 V4R5M0 or later by running:

```
DSPDTAARA DTAARA(QGPL/QSS1MRI)
```

2. Mount the distribution media in the appropriate device.
3. Submit the Restore Licensed Program (RSTLICPGM) command to batch:

```
RSTLICPGM LICPGM(2A55SAM) DEV(device-name) LNG(2924)
```

4. Enter your permanent authorization code.

Enhancements for Dicer Version 1 Release 2 Modification 0

What's In This Section

This section provides information on Dicer enhancements for the current release, notes any customer code implications, and describes where to find more information when applicable.

New MRGSPLF Page Sort Key Special Value Added

A new Page Sort Key line number special value, ***STRPAGGRP** has been added to the Merge Spooled File (MRGSPLF) command. For *AFPDS spooled files, the DDS STRPAGGRP/ENDPAGGRP keywords can be used to group and identify groups of related pages, for example to group all pages of an invoice as a logical unit. For *AFPDS spooled files containing STRPAGGRP/ENDPAGGRP generated tags, the new special value ***STRPAGGRP** can be specified as the page sort criteria. The name specified on the STRPAGGRP keyword is used as the value of the page for each page in the group for the purpose of sorting.

MRGSPLF Page Sort Key Length Value Increased

The Page Sort Key length on the Merge Spooled File (MRGSPLF) command has been increased from 16 to 64. This allows page sorting to consider more data from each page.

Partition Only Licensing Option Added

Gumbo Software, Inc. now offers two choices for licensing our software products for your iSeries Server, system wide licensing and partition licensing. A system wide license applies to a specific iSeries Server serial number and processor group and is good for any and all partitions in the system. A partition license applies to a specific iSeries Server serial number, partition number, and maximum processing capacity, and is not valid for a system that has not been partitioned.

Note: All pre-existing licenses are system wide licenses.

The price of system wide licenses for all of our products, with the except of Report Designer, are tier priced based on your iSeries Server's processor group. You can determine your machine's processor group by running OS/400's WRKLICINF command.

The price of partition only licenses for all of our products, with the except of Report Designer, are based on the maximum processing capacity configured for the partition (rounded up to the nearest tenth). You can determine your partition's maximum processing capacity by running OS/400's

STRSST command and taking option 5.

DMPPIP Command Printer File Corrected

Incorrect printer file was causing the Dump Page Index Positions (DMPPIP) command to fail.

Font Processor Corrections And Updates

- o Four Traditional Chinese character set name definitions, inadvertently remove from base font information table, were replaced.
- o Prompting the TXTRELPOS() parameter caused the prompter to end in error because the special values were made up of undisplayable low hex in a character field. Parameter is now declared as *INT2 and the special values are displayed as numbers.
- o Some (newer) IBM font character sets contain font indexes with empty entries at the end. This caused character look ups to fail as the data is therefore not in order as required by the architecture. FNIs are now inspected as the resource is retrieved to get an actual count of the data present.
- o TXTRELPOS(*EXACT) implemented for fonts specified as printer resident through font global ids (FGIDs). Metrics for the fonts are draw from equivalent host based font resources.
- o User space containing resolved coded font definitions is now locked during update to insure additions are serial.
- o Font base definitions were updated with information for new fonts and to add print emulation fonts.
- o Erroneous define was causing printer resident (fgid specified) fonts to be imbedded.
- o MCH0601 was possible during the processing of font resource information.
- o A Unicode equivalent array is now added to generated codepage spaces during processing.

MODCA Processor Corrections And Updates

- o Added mapping functions to allow ordered processing of a spooled file's external (to the document but internal to the spooled file) resources.

Several generators of MODCA data streams incorrectly account for triplet lengths when specifying the structured field length. Originally this was considered a hard error by the code and processing was terminated. Then, individually, some functions relaxed this and produced only warning messages. The interpretation of length errors has been relaxed for all functions which now issue one and only one warning each.

- o Several generators of MODCA data streams incorrectly generate duplicate end document structured fields. This caused a state stack underflow error and terminated processing. The error is now tolerated without complaint.

Print Data Stream Processor Corrections And Updates

- o Overprint logic now treats SCS Required Space (x41) in the same way as a space character. "Real" characters now "win" when overprinting x41.
- o Print data stream positioning logic for seek to zero enhanced to avoid unneeded processing and diagnostic messages.

Program Distribution Corrections And Updates

- o Product packaging has been changed to include the following directory structure with the product:

```
/Gumbo/ProdData/2A55DCR  
/Gumbo/ProdData/2A55DCR/doc  
/Gumbo/ProdData/2A55DCR/tmp
```

The /doc directory contains product documentation including a copy of the manual in the PDF format. The /tmp directory is used to store temporary files created by the product during processing and is normally empty. These directories can be renamed during the install process using RSTLICPGM's CODHOMEDIR() parameter.

- o Installation procedure is now more robust, saving the previous release contents and restoring them if the install fails. The product usually remains usable after a failure such as objects locked by a user.

Previously, a failed install could leave the product with a mix of old and new objects or missing objects rendering it unuseable.

PTOCA Processor Corrections And Updates

- o Tolerate 0 Baseline Increment

A baseline increment specification of 0 is now treated as "no change".

SCS Processor Corrections And Updates

- o Subscript/Superscript Implemented

Previously the SCS parser ignored control codes for subscripting and superscripting print data. The codes are implemented.

- o Blank page suppression removed

Previously the SCS parser suppressed blank pages on the theory that they weren't needed. For some spooled files this lead to overlays being placed on the wrong page. Suppression was removed.

Spool Indexing Corrections And Updates

- o DMPPIP Command Suppresses Blanks

If a data segment is entirely blank, it is omitted from the Dump Page Index Position report generated by the DMPPIP command.

- o Extend Spooled File Indexing

Indexing was reimplemented and extended using string spaces. This lifts the internal limit on "page key data stores" from 16 to 256 bytes per index key and breaks the one to one restriction between index key and pages allowing none or many keys per page for a single page key index.

Indexing was enhanced to provide indexing of AFPDS's STRPAGGRP fields in both propagating and non-propagating mode and to provide indexing of AFPDS's DOCIDXTAG fields at the page, group and combined levels.

Additional enhancements were added to provide key to page mapping, page to key mapping, various map operators and ordered retrieval of index entries.

- o Overprint logic now treats SCS Required Space (x41) in the same way as a space character. "Real" characters now "win" when overprinting x41.

Space Management Component Corrections And Updates

- o String Space Implemented

New support for "string spaces", including fix or variable length, self management, automatic ordering, and natural or sorted retrieval order was implemented.

- o Added lock/unlock functions for spaces.

Spool Component Corrections And Updates

- o Merge component was incorrectly freeing memory resulting in C2M1212 diagnostic on close.