DIN File

This document contains brief notes on the Dynamic Information file MONASH.DIN for the MONASH model.

<div align="center">**Statements in the DIN file**</div>

```
file ROREXT key REX ;
file EXTRA3 key EX3 usage extra 1 2 2 ;
file EXTRA4 key EX4 lagof extra role lagged-input usage extra 1 2 3 ;
file EXTRA5 key EX5 lagof extra role lagged-input usage extra 1 2 2 ;
file ITER   key ITE;
```

Notes   In the deviation (policy) (see below for details)
```
EXTRA    deviation (policy) extra from the current year
EXTRA3   forecast (rerun) extra from the current year
EXTRA4   deviation (policy) extra from the previous year
EXTRA5   forecast (rerun) extra from the previous year
```


ROREXT
file ROREXT key REX ;

This is needed because there already is a file with 1st 3 letters ROR so change key to REX
```
file ROREXT     logical file name in TAB file ROREXT
key REX         files in RunMONASH start with REX
```

The following are just the normal case if there are no fancy bits in DIN file
```
Base case
File ROREXT = rexbas16.har ; ! updated input
updated file ROREXT = rexbas17.har;
Base rerun
File ROREXT = rexbr116.har ; ! updated input
updated file ROREXT = rexbr117.har;
Policy
File ROREXT = rexpl116.har ; ! updated input
updated file ROREXT = rexpl117.har;
--------------------------------
```
EXTRA3 forecast extra from the current year

file EXTRA3 key EX3 usage extra 1 2 2 ;

```
file EXTRA3     logical file name EXTRA3
key EX3         files in RunMONASH start with EX3
usage extra     reads from EXTRA3 are really from some EXTRA file (EXT)
1 2 2           in the deviation (policy), use the forecast(base rerun) extra (from the current year)
```

```
Base case 2017
File EXTRA3 = extbas16.har ; ! updated input======= 1
updated file EXTRA3 = ex3bas17.har;
Base Rerun
File EXTRA3 = extbr116.har ; ! updated input======= 2
updated file EXTRA3 = ex3br117.har;
Policy
File EXTRA3 = extbr116.har ; ! updated input======= 2
updated file EXTRA3 = ex3pl117.har;
```

EXTRA4 deviation extra from the previous year

file EXTRA4 key EX4 lagof extra role lagged-input usage extra 1 2 3 ;

lagof extra role lagged-input   EXTRA4 is lag of EXTRA
usage extra   files start with EXT (key for EXTRA)
1 2 3 deviation (policy) extra (from the previous year since lagged)

Base case 2017
File EXTRA4 = extbas15.har ; ! lagged input=========== 1
no updated files
Base Rerun
File EXTRA4 = extbr115.har ; ! lagged input=========== 2
Policy
File EXTRA4 = extpl115.har ; ! lagged input=========== 3

EXTRA5 forecast extra from the previous year

file EXTRA5 key EX5 lagof extra role lagged-input usage extra 1 2 2 ;

lagof extra role lagged-input   EXTRA5 is lag of EXTRA
usage extra   files start with EXT (key for EXTRA)
1 2 2   forecast (rerun) extra (from the previous year since lagged)
Base case
File EXTRA5 = extbas15.har ; ! lagged input ============= 1
no updated files
Base rerun
File EXTRA5 = extbr115.har ; ! lagged input ============= 2
Policy
File EXTRA5 = extbr115.har ; ! lagged input ============= 2
----
file iter key ITE;

In the example CMF files below:
The current year for the data files is 2016, the previous year for
the data files is 2015, the year of the updated files is 2017.

Base Case CMF file for simulation year 2017 - basb2017.cmf
File FID = fidbas16.har ; ! updated input
File EXTRA = extbas16.har ; ! updated input
File EXTRA3 = extbas16.har ; ! updated input
File EXTRA4 = extbas15.har ; ! lagged input
File EXTRA5 = extbas15.har ; ! lagged input
File ITER = itebas16.har ; ! updated input
File PARAMS = C:\MONASHBK\MON70BK\DATA\PARAMS.HAR ; ! constant input
File SETINFO = C:\MONASHBK\MON70BK\DATA\SETINFO.HAR ; ! constant input
File SRFM = srfbas16.har ; ! updated input
File ROREXT = rexbas16.har ; ! updated input
File WRITFILE = wribas16.txt ; ! output
updated file FID = fidbas17.har;
updated file EXTRA = extbas17.har;
updated file EXTRA3 = ex3bas17.har;
updated file ITER = itebas17.har;
updated file SRFM = srfbas17.har;
updated file ROREXT = rexbas17.har;

Base Rerun CMF file for year 2017 - br1r2017.cmf
File FID = fidbr116.har ; ! updated input
File EXTRA = extbr116.har ; ! updated input
File EXTRA3 = extbr116.har ; ! updated input
File EXTRA4 = extbr115.har ; ! lagged input
File EXTRA5 = extbr115.har ; ! lagged input
File ITER = itebr116.har ; ! updated input
File PARAMS = C:\MONASHBK\MON70BK\DATA\PARAMS.HAR ; ! constant input
File SETINFO = C:\MONASHBK\MON70BK\DATA\SETINFO.HAR ; ! constant input
File SRFM = srfbr116.har ; ! updated input
File ROREXT = rexbr116.har ; ! updated input
File WRITFILE = wribr116.txt ; ! output
updated file FID = fidbr117.har;
updated file EXTRA = extbr117.har;
updated file EXTRA3 = ex3br117.har;
updated file ITER = itebr117.har;
updated file SRFM = srfbr117.har;
updated file ROREXT = rexbr117.har;

Policy CMF file for year 2017 - pl1p2017.cmf
File FID = fidpl116.har ; ! updated input
File EXTRA = extpl116.har ; ! updated input
File EXTRA3 = extbr116.har ; ! updated input
File EXTRA4 = extpl115.har ; ! lagged input
File EXTRA5 = extbr115.har ; ! lagged input
File ITER = itepl116.har ; ! updated input
File PARAMS = C:\MONASHBK\MON70BK\DATA\PARAMS.HAR ; ! constant input
File SETINFO = C:\MONASHBK\MON70BK\DATA\SETINFO.HAR ; ! constant input
File SRFM = srfpl116.har ; ! updated input
File ROREXT = rexpl116.har ; ! updated input
File WRITFILE = wripl116.txt ; ! output
updated file FID = fidpl117.har;
updated file EXTRA = extpl117.har;
updated file EXTRA3 = ex3pl117.har;
updated file ITER = itepl117.har;
updated file SRFM = srfpl117.har;
updated file ROREXT = rexpl117.har;