

# EASYEXT

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<https://www.kilgus.net/2016/04/> (Section “*EasyPtr and me*”)

This copyright notice must not be removed. NOTE: Original **main** Chapter number was 6.

Filename: “**easyext\_res**” (EASYPTR II) apparently “**easyext\_cde**” (EASYPTR IV)

This is a small excerpt from (the German) **EASYPTR II** documentation from Albin Hessler. Current version ist **EASYPTR IV**. (*Annotation from translator: I have tried to translate it as nearly to the German original text from EASYPTR II as possible.*)

## General

**EASYEXT offers the possibility to load extensions temporarily and remove them again**, even if other jobs are running.

EASYEXT can load extensions into the common heap, but also into the “transient” Job memory area (*remark from translator: Transient Program Area [TPA]*). Generally loading into the job area is advantageous, cause this area is better viewable with commands like JOBS, FREE\_MEM or QJ or with SYSMON and jobs can be named. The common heap is not so easily viewable (also tools for this surely exists).

As a secondary effect EASYEXT offers the possibility to remove jobs, which hold SuperBASIC extensions and driver (e. g. the Talent Workbench Editor) in their code, and whose removal would sooner or later lead to a system crash.

## .1 Configuration

EASYEXT may be configured with “config”.

## .2 Syntax

### Error Handling

If a variable “address” or “address\$” is passed, it contains the error code on return, if an error has occurred.

### .2.1 The Commands

## EASY\_EXT

EASY\_EXT redefines the commands LRESPR and RJOB, so that the routines contained in EASYEXT are executed (→ Configuration).

With TK2\_EXT the routines from Toolkit2 will become valid again.

## REASS

Clear multiple SuperBASIC Names in the Name Table. The last initialized variant will become valid, all others are deleted.

EASYEXT may be configured, so that XCH, XRP and XJ automatically execute a REASS (→ Configuration).

Is required with MGG ROM, to make extensions valid, which already exists as names.

## XCH

**XCH**            **filename[, {address}{address\$}[, switch]**

filename	Filename as SuperBASIC name or string. The preset drive and extension may be omitted. If the file isn't found, the directory set by DATA_USE will be tested.
address	Return parameter for start address as floating point number.
address\$	Return parameter for start address as a string with the hex number.
switch	0 or missing → a CALL address will be executed. 1                → only memory will be reserved and file will be loaded

Reserves memory for the file “**filename**” and loads it. If “**address**” or “**address\$**” is given, the starting address of reserved area is returned. This is required to release the allocated memory with RXCH.

## XRP

**XRP**            **filename[, {address}{address\$}[, switch]**

As XCH, but first it will be tried to use the resident area (*remark of translator Resident Procedure Area [RPA]*). If this succeeds, a later release is not possible.

## LRESPR

As XRP. Will be initialized with EASY\_EXT or when loading the EASYEXT extension (→ Configuration). Syntax compatible with LRESPR from Toolkit 2.

## XJ

**XJ**            **filename[, {address}{address\$}[, switch]**

Parameters as for XCH.

Creates a job in the transient memory area (Annotation from translator: TPA) and loads the file. The job has the job name “XJ filename”.

“**address**” points to the beginning of the code. The basis address of the job is address-64. XJ-Jobs may be removed with RJOB (TK2) or with the Rjob (German Ljob) menu from QPAC2 without any problems.

## RXCH

**RXCH**            **address**

**address**        **The start address of the memory area which was returned by XCH.**

Removes all SuperBASIC extensions, Tasks and drivers, which has been reserved in this area from XCH. Releases the memory area.

## RXJ

**RXJ**            {jobnumber}

Removes all SuperBASIC extensions, Tasks and drivers, which are in the memory area of the job. Removes the Job.

**XJ-Jobs may be removed with RJOB (TK2) or with the Rjob (German Ljob) menu from QPAC2 without any problems.**

## RJOB

**RJOB**            {Jobnumber}{Job ID}»»  
                   »»{Jobnumber, job\_tag, error\_code}»»  
                   »»{address}

*Either the the address delivered from XJ or the “**Jobnumber**” delivered from QJ or RJOB or the full “**Job ID**” = job\_tag\*65536+job\_number or the parameters as requested from RJOB from Toolkit2 may be passed.*

*Else as RXJ. Will be initialized with EASY\_EXT or when loading (Annotation from Translator: Most probably when LRESPRed) (→ Configuration). Syntax compatible to RJOB from Toolkit 2*

## RXJS

As RXJ for all XJ Jobs.

## RJOBS

As RXJ for all Jobs.

### Notes from the translator:

I have added the original “easyext\_res” toolkit (extension) from the original “EASYPTR II” package from Albin Hessler into the zip file. Also it seems it is included in the current version “EASYPTR IV” package (now maintained by Marcel Kilgus) under the name “easyext\_cde”. So you perhaps better use the version from Marcells package. I don't know if he has changed anything. I have not yet tested it under QPC2, it worked well under an original QL with Minerva 1.9x (x: Don't know the last version digit). Perhaps there may be problems with the XRP (which tries to load into the Resident Procedure Area – which has changed in QPC2 – first) on QPC2.

You have been warned.