

SAP Kernel enhancements on IBM i

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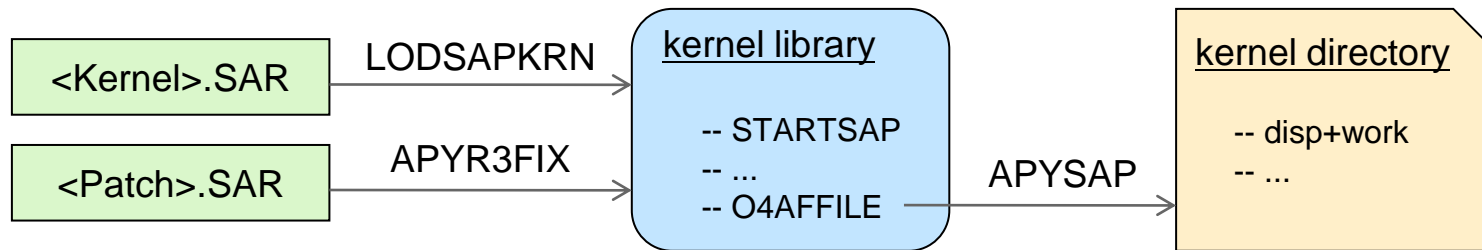
Kernel Structure

Reorganization of the SAP Kernel on IBM i

SAP Kernel 7.10

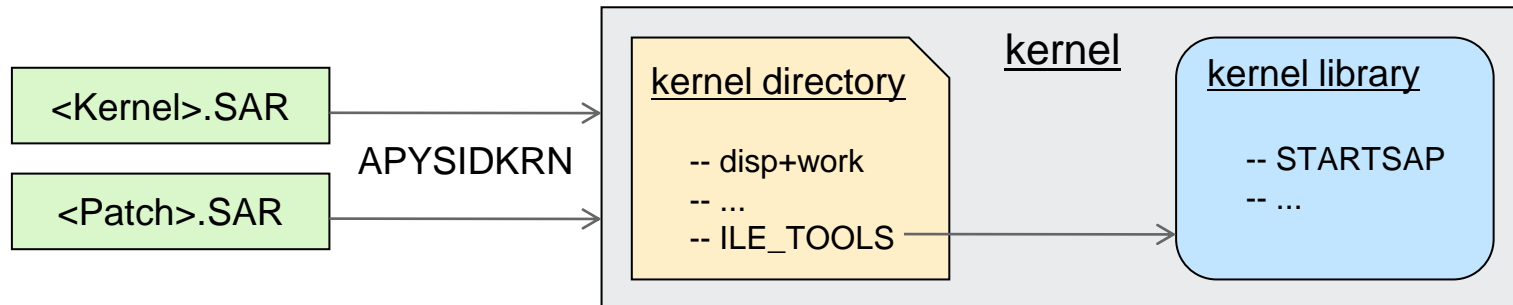
The old kernel administration separated kernel library and kernel directory

The complete kernel can be rebuilt from the kernel library (“library-centric”)



The new kernel administration handles the complete kernel as one unit

The complete kernel can be rebuilt from the kernel directory (“directory-centric”)



Kernel Structure

Elimination of shared ILE program library

SAP Kernel 7.20

ILE program calls from PASE programs reduced to ILE system interface calls
Shared ILE program library O4PRTLIB eliminated

Integration of shared PASE program library

SAP Kernel 7.20

PASE program library OS4APILIB statically linked to various PASE programs
Shared binding of OS4APILIB limited to core kernel programs only

Redesign of the SAP Initial Program

SAP Kernel 7.20

Various functions moved from R3INLPGM to more suitable kernel tools
New initial program SAPINLPGM moved into the kernel library

Kernel Handling

Integrated Kernel Administration command

SAP Kernel 7.10

APYSIDKRN replaces LODSAPKRN + APYSAP to load/apply a kernel stack

APYSIDKRN replaces APYR3FIX + APYSAP to load/apply a kernel patch

Automated ILE Kernel Library Distribution

SAP Kernel 7.20

The kernel directory is implicitly distributed remotely through proper file system setup

The kernel library is automatically replicated by the new SAP daemon “sapiled”

Kernel administration online / activation at instance restart

SAP Kernel 7.10

APYSIDKRN prepares central offline kernel staging area DIR_CT_RUN

The new SAP program “sapcpe” automatically activates new kernel components before startup/restart of the instance

Kernel Handling

Availability and Rollout

Available today for SAP NetWeaver 7.1x (7.10 items)

Available today for SAP NetWeaver 7.20 and higher (7.10 and 7.20 items)

Available today for SAP NetWeaver 7.02 / SAP Business Suite 7i2010 (7.10 and 7.20 items)

We are working on full SAP NetWeaver 7.x / SAP Business Suite 7 coverage

For additional information please refer to the following SAP Notes

1078134: Kernel Structure on IBM i in general

1097751: Kernel Structure on IBM i for SAP Kernels 7.10++

1097600: Kernel Structure on IBM i for SAP Kernels 7.00/7.01

1097637: Kernel copy on IBM i for SAP Kernels 7.10++

1298623: Kernel copy on IBM i for SAP Kernels 7.01

1097636: Kernel copy on IBM i for SAP Kernels 7.00

Kernel Releases

Solutions (e.g.ERP)		46C	471	500	600	604	605				
Technology (NW)		46C	620	640	700	701	702	710	711	720	730
(end of extended maintenance)		(03/13)	(03/13)	(03/13)	(12/17)	(12/17)	(12/17)	(12/17)	(12/17)	(12/17)	(12/17)
Original Kernel	SAP rel	46C	620	640	700	701	720	710	711	720	720
	IBM i min	V4R4	V5R1	V5R2	V5R3	V5R4	V5R4	V5R4	V5R4	V5R4	6.1
	IBM i max	V4R5	V5R3	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Compatible Kernel	SAP rel	46D	640	-	-	-	-	-	-	-	-
	IBM i min	V4R4	V5R2	-	-	-	-	-	-	-	-
	IBM i max	V5R2	7.1	-	-	-	-	-	-	-	-
Mntenance Kernel	SAP rel	EXT	EX2	EX2	-	-	-	-	-	-	-
	IBM i min	V5R1	V5R3	V5R3	-	-	-	-	-	-	-
	IBM i max	7.1	7.1	7.1	-	-	-	-	-	-	-



Thank You!

Contact information:

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