

OS/390 SDSF Dynamic ISFPARMS and the SDSF Server

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SDSF_DynamicParms.PRZ

Dynamic ISFPARMS and the SDSF Server

- ▶ Introduced as optional function in OS/390 V1R2
- ▶ Required for future sysplex enhancements (OS/390 V2R10--not discussed in this presentation)

Dynamic ISFPARMS

- ▶ Allows ISFPARMS to be changed dynamically

No assembler macros to assemble and link-edit!

- ▶ Uses statements

- ▶ Processed by an SDSF server address space
Option to allow dynamic ISFPARMS to fall back to assembler macros if the server is not active

ISFPARMS Syntax Comparison

Assembler Macros:

```
        ISFGRP TSOAUTH=(JCL,OPER,ACCT),
                XUID=XLIST,
                AUTH=(LOG,I,O,H,DA,INIT,PR,NO,DEST),
                IFIELDS=DFLD
XLIST  ISFNTBL $S,1,OPER,3
DFLD   ISFFLD JNUM,'JOB NUM',7,
                JPRI0,PRTY,4,TYPE=IN
```

Equivalent Dynamic ISFPARMS Statements:

```
GROUP TSOAUTH(JCL,OPER,ACCT),
        XUID(XLIST),
        AUTH(LOG,I,O,H,DA,INIT,PR,NO,DEST),
        IFIELDS(DFLD)
NTBL NAME(XLIST)
        NTBLENT STRING($S),OFFSET(1)
        NTBLENT STRING(OPER),OFFSET(3)
FLD NAME(DFLD) TYPE(IN)
        FLIDENT COLUMN(JNUM),TITLE('JOB NUM'),WIDTH(7)
        FLIDENT COLUMN(JPRI0),TITLE(PRTY),WIDTH(4)
```

Conversion

- ▶ Utility to convert assembler macros to the dynamic format
- ▶ Invoke from ISPF with **ISFACP**

ISFPARMS Conversion Utility

ISFPARMS input data set to be converted
===> 'ISF.SDSFR1.SISFSRC(ISFPARMS)'

SDSF and JES2 macro libraries

===> 'ISF.SDSFR1.SISFSRC'

===> 'SYS1.HASPSRC'

===> 'SYS1.MACLIB'

Output data set

===> 'MYOWN.SDSF.PARMS'

ISFPARMS Processing

- ▶ Processed by an SDSF server (an address space)
- ▶ Server reads the ISFPARMS at initialization
- ▶ Server reads from PARMLIB member ISFPRMxx or from a PDS defined in the server JCL. Can specify the xx suffix when starting the server, for example `s sdsf,m=01`

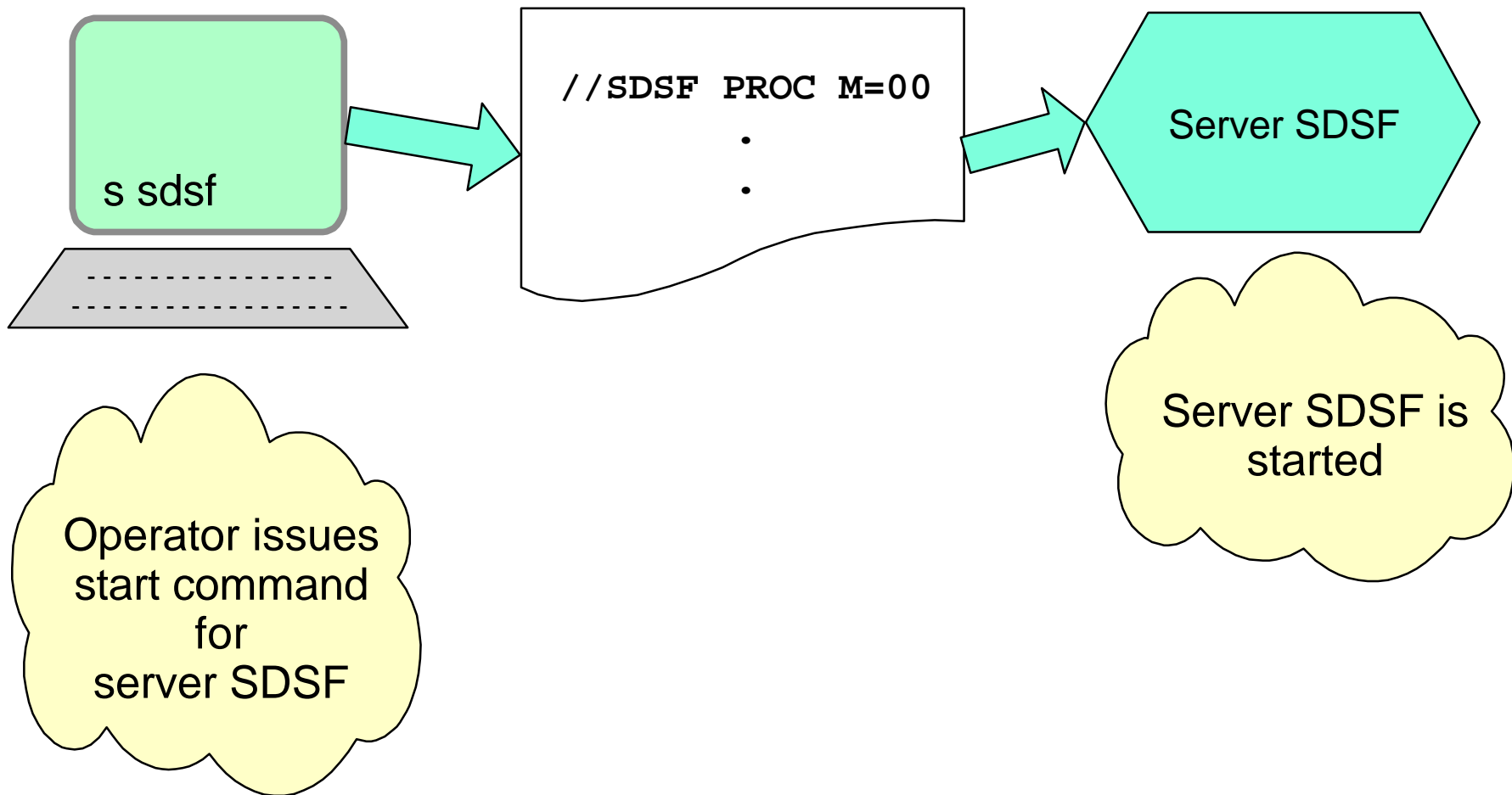
Server Control Commands

- ▶ **START** *proc-name* to start the server
Example: **s sdsf**
- ▶ **MODIFY** *server-name* to refresh the statements or check syntax without activating
Example: **f sdsf,refresh,test**
- ▶ **STOP** *server-name* to stop the server
Example: **p sdsf**

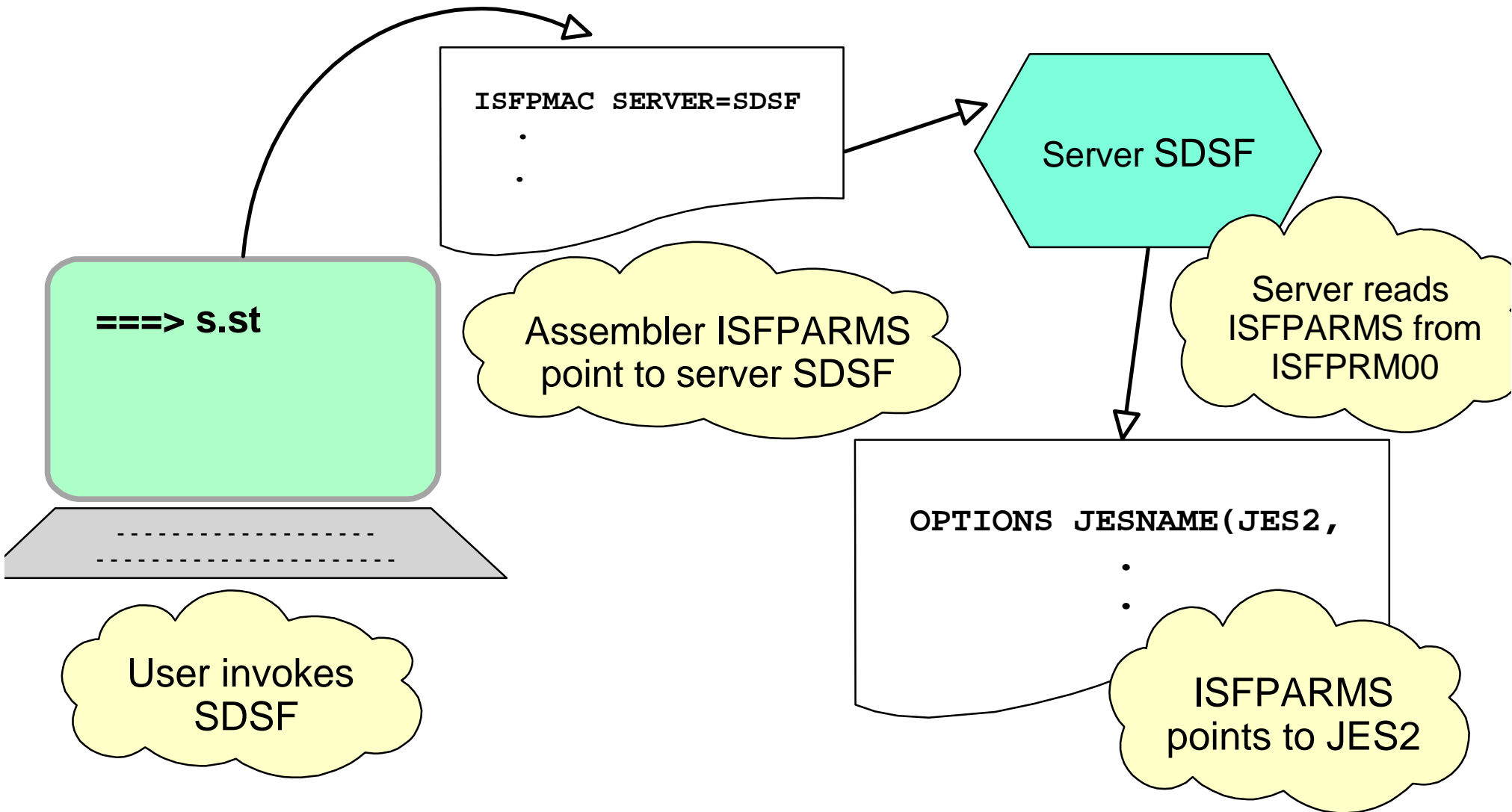
SDSF Server

- ▶ Can have more than one SDSF server
 - Different servers processing different ISFPARMS
 - Server names must be unique on a system
- ▶ The server in use is defined in ISFPMAC
 - Assembler ISFPARMS required for this parameter
 - Can override when accessing SDSF
TSO: **sdsf server(server-name)**
ISPF: **s.server(server-name)**

Server Scenario - Starting the Server



Server Scenario - SDSF Initialization



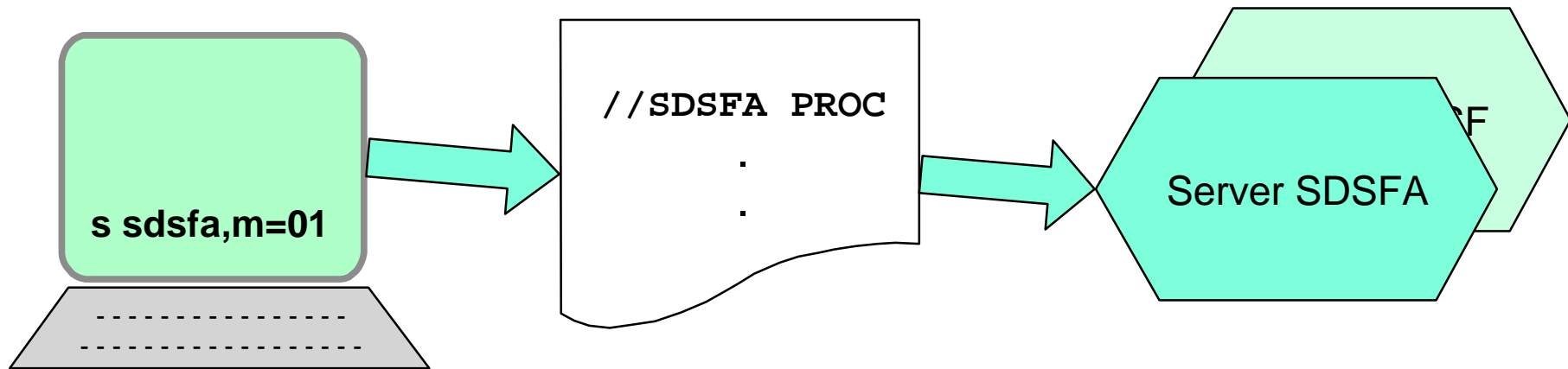
Server Scenario - SDSF Display

SDSF displays
data for JES2

SDSF Server

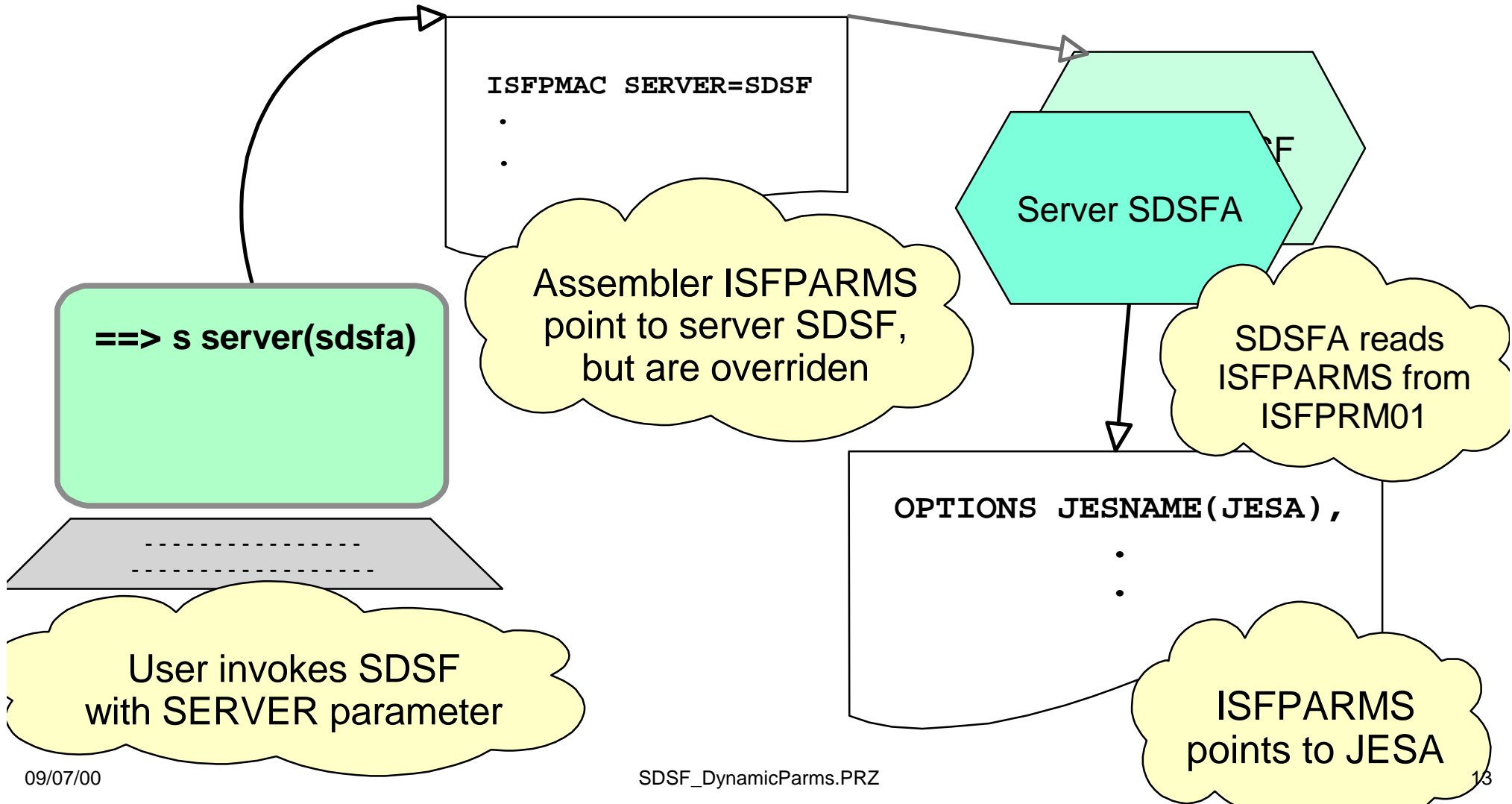
```
SDSF STATUS  
COMMAND INPUT==>  
NP JOBNAME JOB  
  HOLDREN TSU  
  DROYEK  TSU
```

Server Scenario 2 - Displaying an Alternate JES



Operator starts
a second server,
SDSFA, with ISFPRMxx
member suffix 01

Server Scenario 2 - SDSF Initialization



Server Scenario 2 - SDSF Display

SDSF shows data for JESA

Server SDSFA

```
SDSF STATUS  
COMMAND INPUT==>  
NP JOBNAME JOB  
  LAURIE1 TSU  
  DECKER  TSU
```