



SQL PL i Mainframe
- från Development Center till produktion

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Stored Procedure Builder / Development Center

The screenshot displays the DB2 Development Center interface. The main window is titled "My DB2-server - Remote Desktop" and "DB2 Development Center". The interface is divided into several panes:

- Project View:** Shows a tree structure with "Project1" containing "Database Connections", "DSNN", "Stored Procedures", and "User-Defined Functions". The "Stored Procedures" folder is expanded, showing "DBAPROC.HELLO".
- Server View:** A table listing the procedure:

Name	Schema	Sp
HELLO	DBAPROC	SC
- Output View:** A table showing the execution results:

Stat...	Acti...	Object ...
✓	Run	HELLO
✓	Build	HELLO
✓	Save	Project1
✓	Check	PROCED...
✓	Remo...	Stored Pr...
✓	Add	Database...
- Editor View:** Displays the SQL code for the procedure:


```

      CREATE PROCEDURE DBAPROC.HELLO (
          IN name varchar(20),
          OUT greeting varchar(40))

      LANGUAGE SQL
      MODIFIES SQL DATA
      COLLID TEST
      EXTERNAL NAME HELLO
      WLM ENVIRONMENT DSNWLM
      ASUTIME LIMIT 60
      RUN OPTIONS 'NOTEST(ALL,*,VADTCPIP&127.0.0.1:*)'

      -- SQL Stored Procedure

      P1: BEGIN

          SET greeting = 'Hello ' || name || '!';

      END P1
      
```

Stored Procedure Builder / Development Center

The screenshot shows the DB2 Development Center interface. The Editor View displays the following SQL code for a stored procedure:

```

CREATE PROCEDURE DBAPROC.HELLO (
    IN name varchar(20),
    OUT greeting varchar(40))

LANGUAGE SQL
MODIFIES SQL DATA
COLLID TEST
EXTERNAL NAME HELLO
WLM ENVIRONMENT DSNMWLM
ASUTIME LIMIT 60
RUN OPTIONS 'NOTEST(ALL,*,VADTCPIP&127.0.0.1:*)'

-- SQL Stored Procedure

P1: BEGIN

    SET greeting = 'Hello ' || name || '!';

END P1
    
```

A blue box labeled "DDL" is positioned over the "CREATE PROCEDURE" line, with a red circle highlighting the entire SQL code block in the Editor View.

The Project View on the left shows a tree structure with "Project1" containing "Database Connections", "DSNN", "Stored Procedures", and "User-Defined Functions". The "Stored Procedures" folder is expanded to show "DBAPROC.HELLO".

The Output View at the bottom left shows a table with the following data:

Stat...	Acti...	Object ...
✓	Run	HELLO
✓	Build	HELLO
✓	Save	Project1
✓	Check	PROCED...
✓	Remo...	Stored Pr...
✓	Add	Database...

The Output View also shows a table with the following data:

Name	In	Out
name	Jonas	
greeting		Hello Jonas!

Stored Procedure Builder / Development Center

The screenshot shows the DB2 Development Center interface. The Project View on the left shows a project named 'Project1' with a sub-project 'Stored Procedures' containing a procedure 'DBAPROC.HELLO'. The Editor View on the right displays the SQL code for the procedure. The Output View at the bottom shows the execution results, including a table with columns 'Name' and 'Out'.

DDL (Data Definition Language) is highlighted in a blue box, pointing to the 'CREATE PROCEDURE' statement in the Editor View.

Logik (Logic) is highlighted in a blue box, pointing to the 'SET greeting = 'Hello ' || name || '!';' statement in the Editor View.

The Editor View shows the following SQL code:

```

CREATE PROCEDURE DBAPROC.HELLO (
    IN name varchar(20),
    OUT greeting varchar(40))

LANGUAGE SQL
MODIFIES SQL DATA
COLLID TEST
EXTERNAL NAME HELLO
WLM ENVIRONMENT DSNWLM
ASUTIME LIMIT 60
RUN OPTIONS 'NOTEST(ALL,*,VADTCPIP&127.0.0.1:*)'

-- SQL Stored Procedure

P1: BEGIN

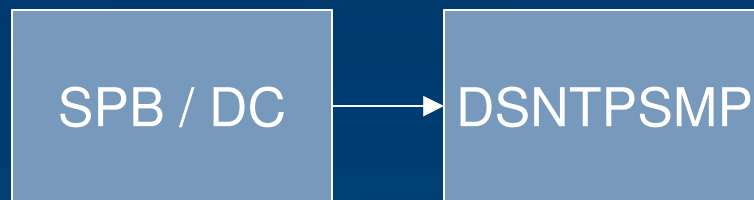
    SET greeting = 'Hello ' || name || '!';

END P1
    
```

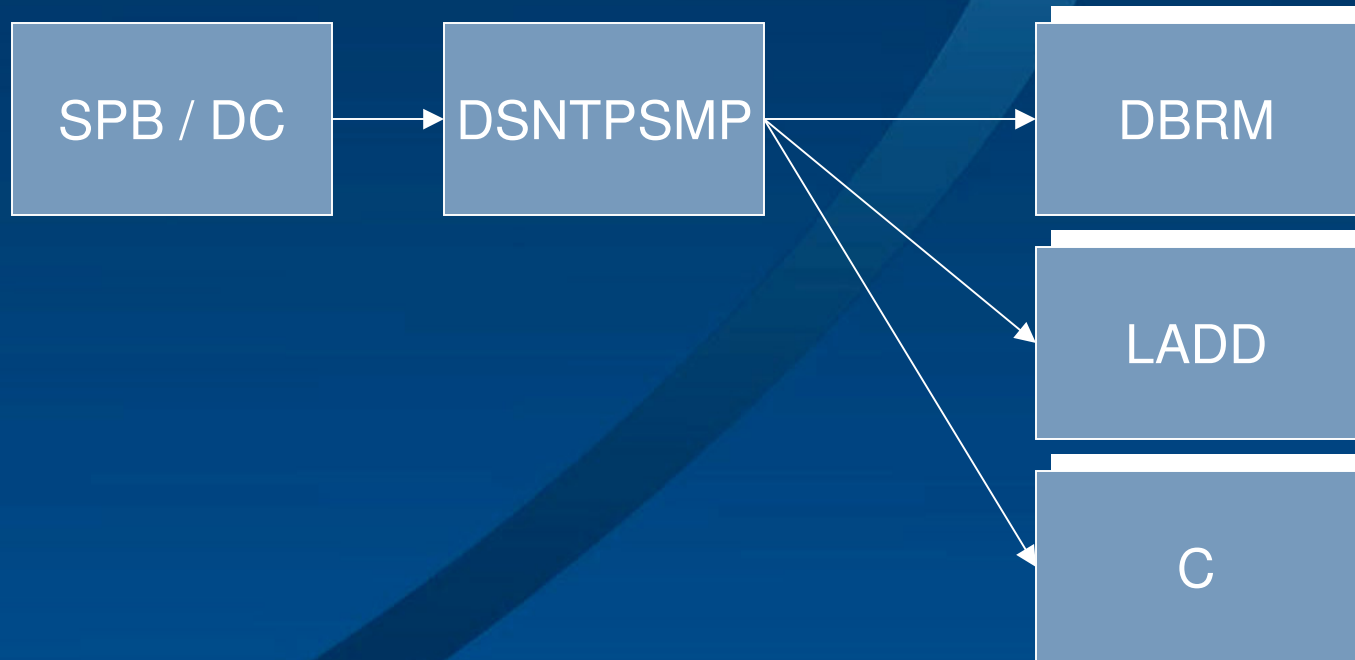
The Output View shows the following execution results:

Stat...	Acti...	Object ...	DSNN...	Name	Out
✓	Run	HELLO			
✓	Build	HELLO			
✓	Save	Project1			
✓	Check	PROCED...			
✓	Remo...	Stored Pr...			
✓	Add	Database...			

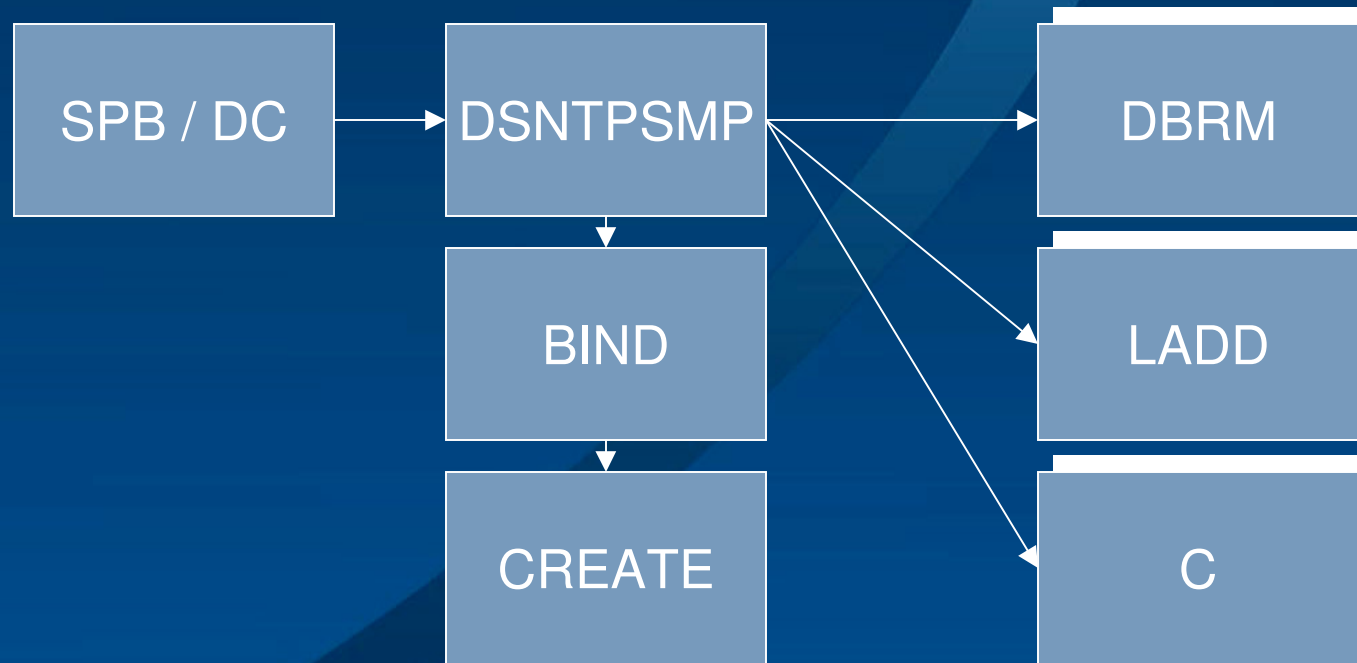
Bygga procedurer på Mainframe från SPB / DC



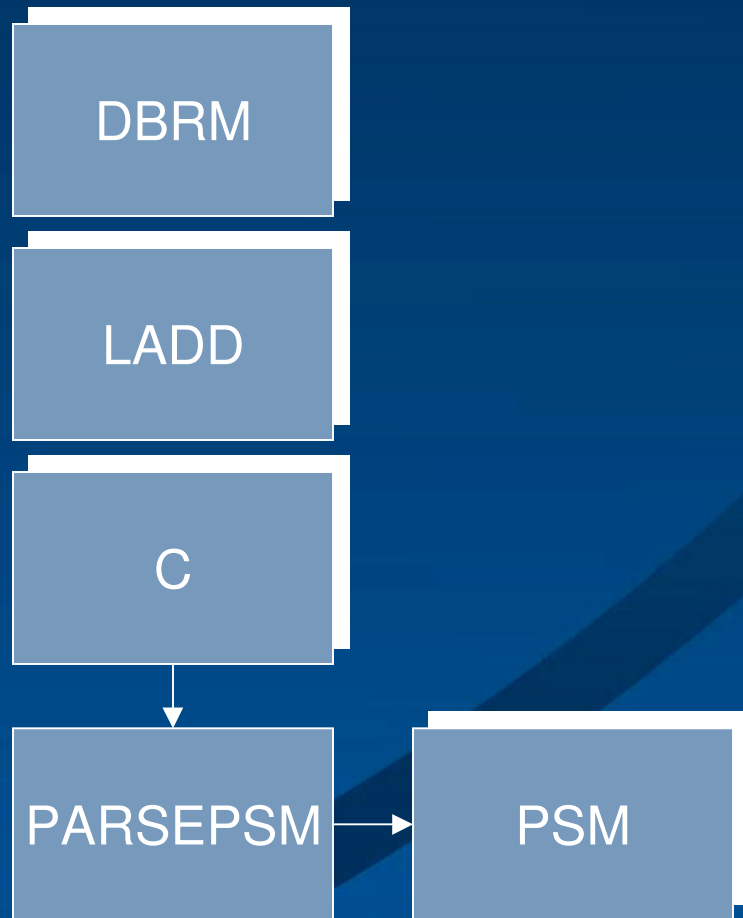
Bygga procedurer på Mainframe från SPB / DC



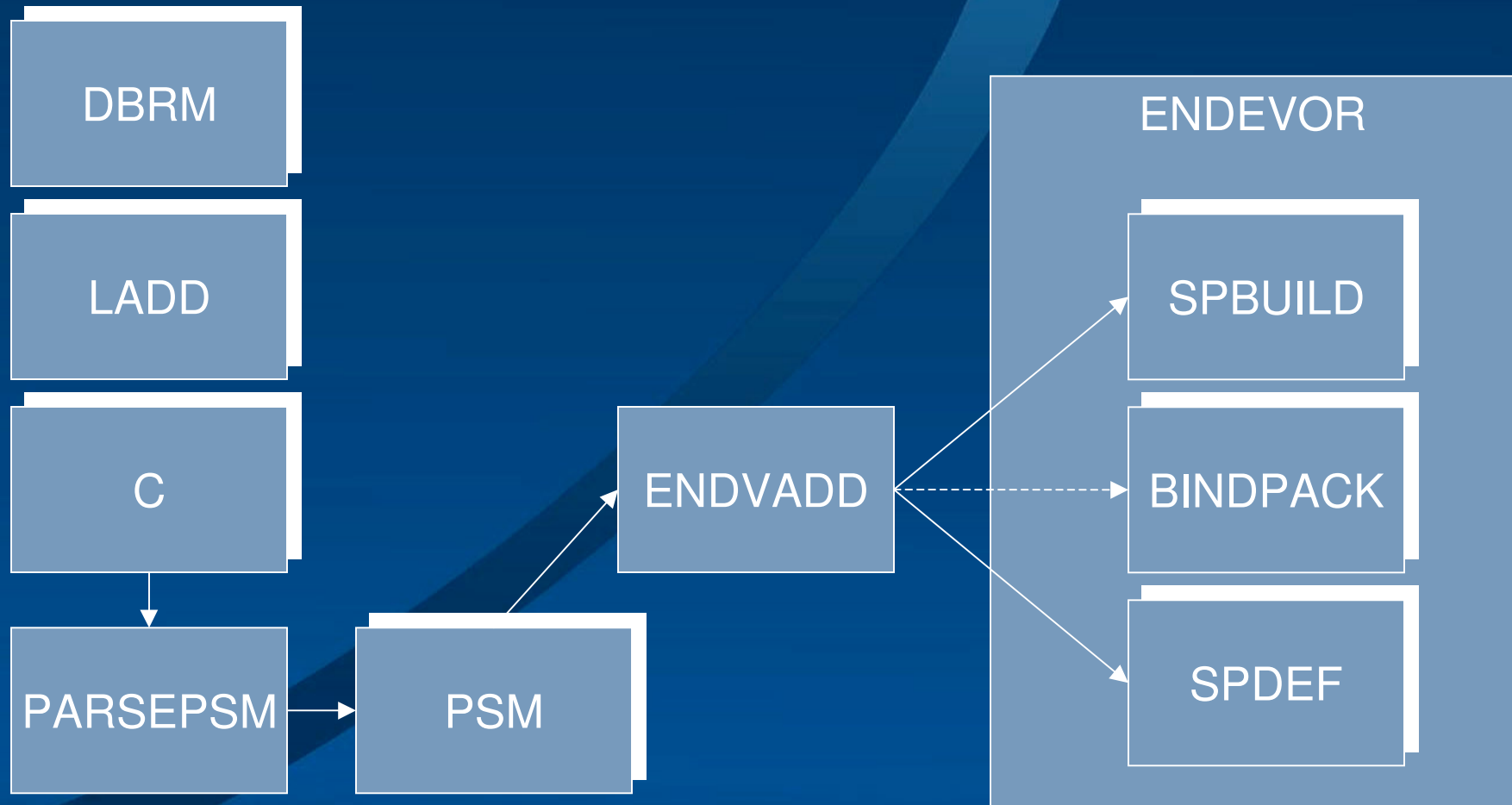
Bygga procedurer på Mainframe från SPB / DC



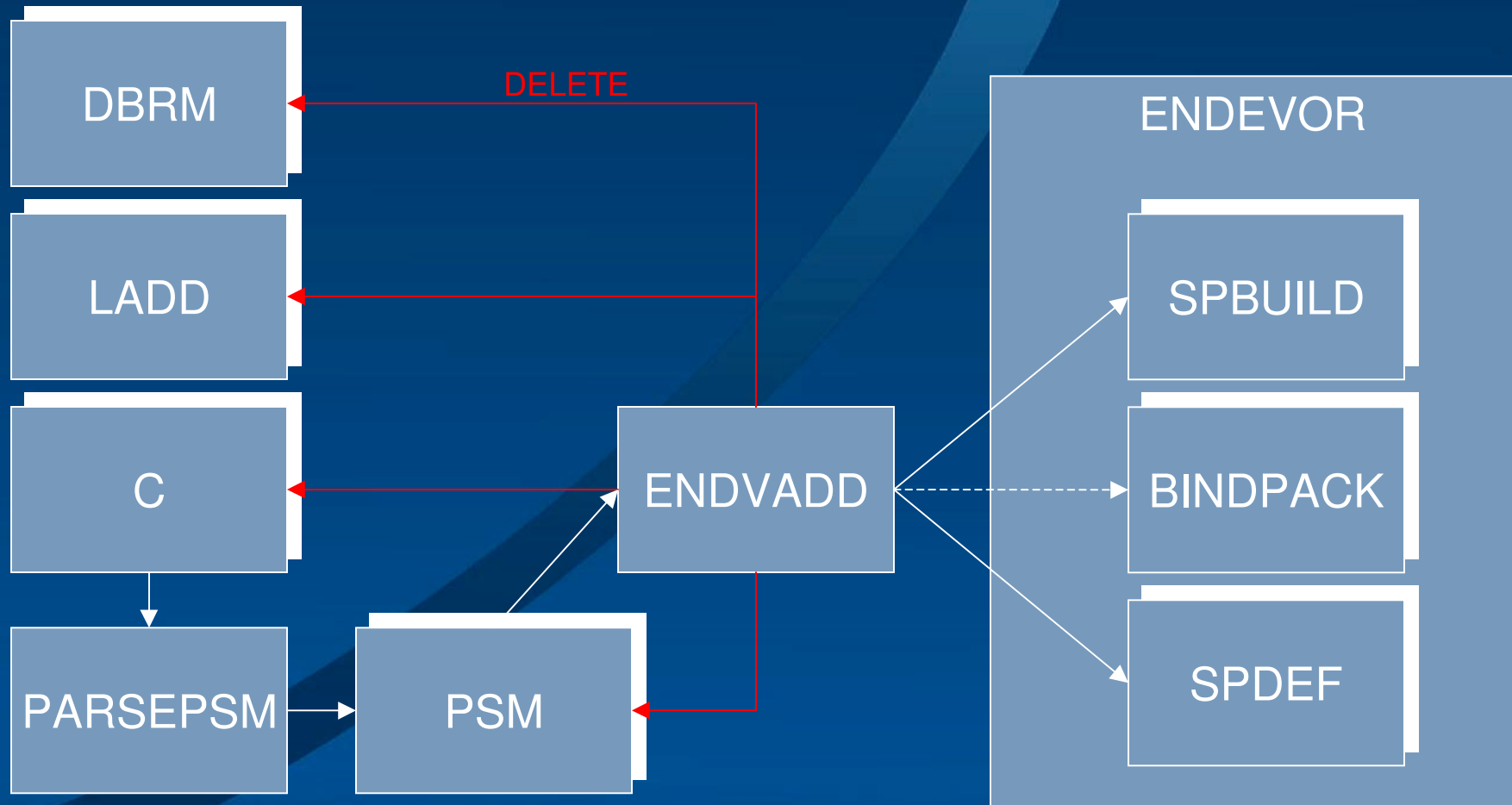
Flytta kod till Endevor



Flytta kod till Endevor



Flytta kod till Endevor



Schema, Collection och WLM-environment

SPBUILD

```
CREATE PROCEDURE DBAPROC.HELLO
  (IN name VARCHAR(20),
  OUT greeting VARCHAR(40))
LANGUAGE SQL
MODIFIES SQL DATA
COLLID TEST
EXTERNAL NAME HELLO
WLM ENVIRONMENT DSNWLM
ASUTIME LIMIT 60
RUN OPTIONS
  'NOTEST(ALL,*,,VADTCPIP&127.0.0.1:*)'
...
```

SPDEF

```
CREATE PROCEDURE &SCHEMA.HELLO
  (IN name VARCHAR(20),
  OUT greeting VARCHAR(40))
LANGUAGE SQL
MODIFIES SQL DATA
COLLID &COLLID1.
EXTERNAL NAME HELLO
WLM ENVIRONMENT &SSID.WLM
ASUTIME LIMIT 60
RUN OPTIONS
  'H(,ANY),STAC(,ANY,),STO(,,,4K)
  ,BE(4K,,),LIBS(4K,,),ALL31(ON)'
```

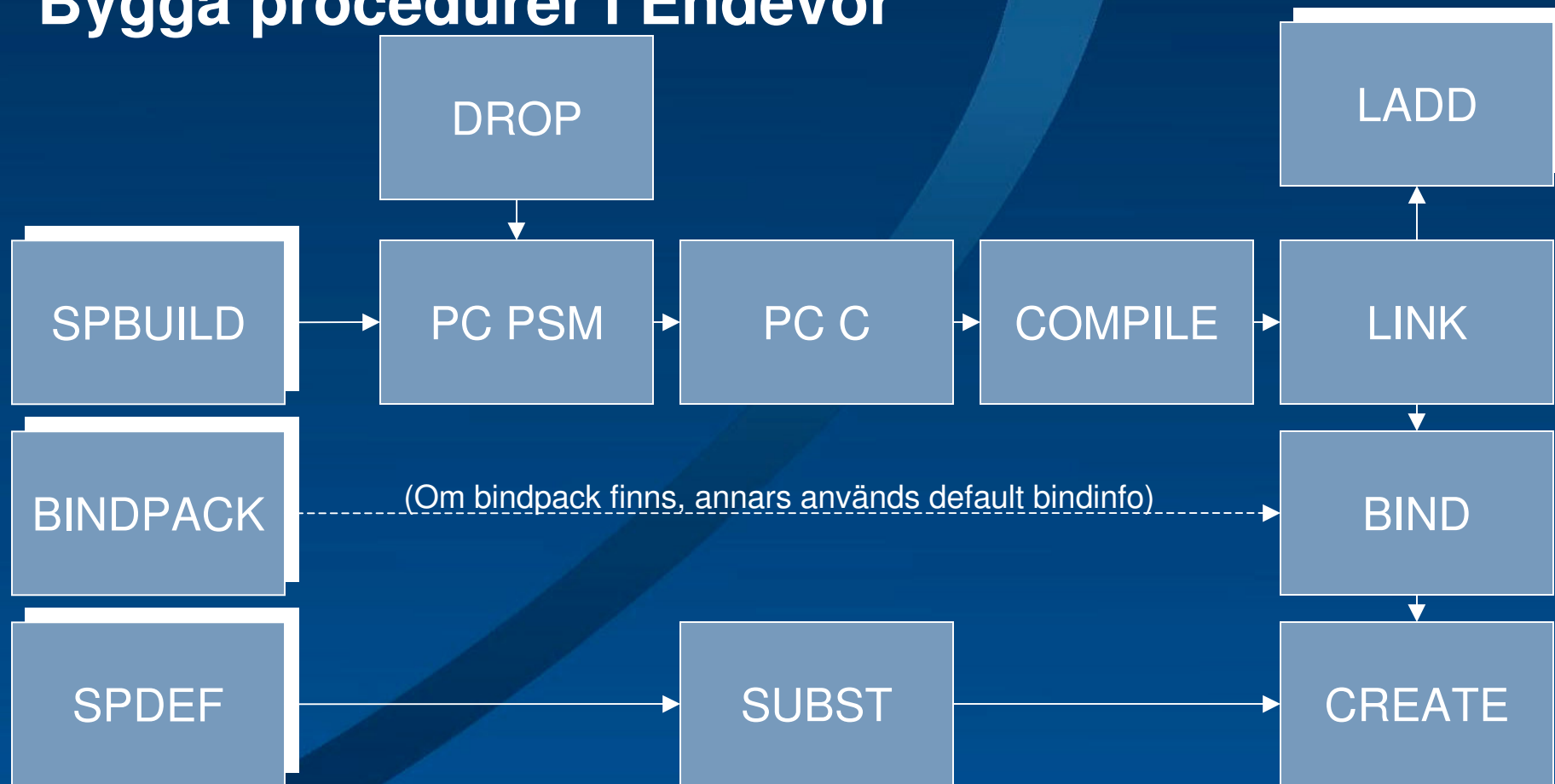
Bygga procedurer i Endevor



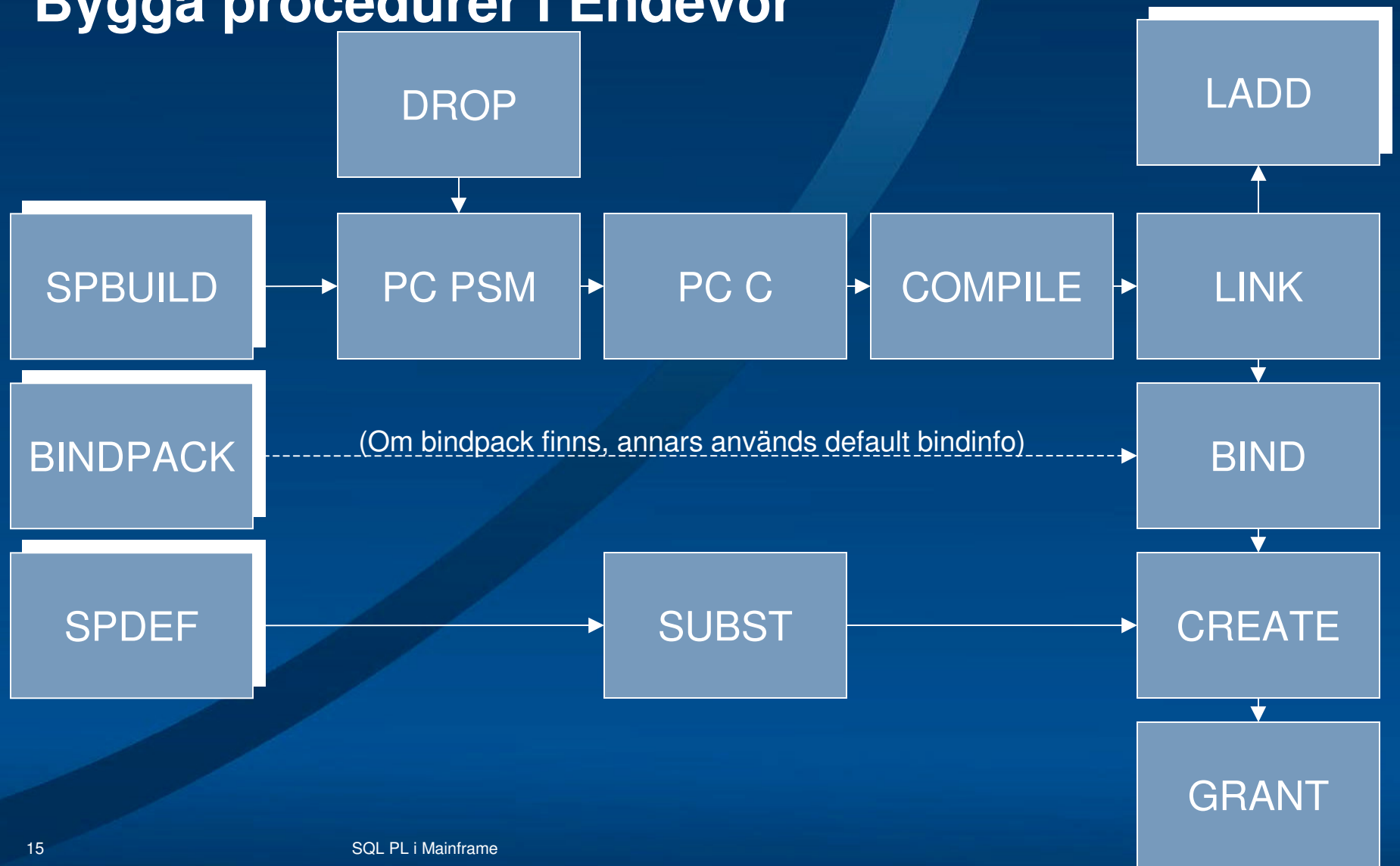
Bygga procedurer i Endevor



Bygga procedurer i Endevor



Bygga procedurer i Endevor



DB2 då?

Ja, hur många SQL-statements resulterar proceduren i?

```
CREATE PROCEDURE DBAPROC.HELLO (IN name VARCHAR(20), OUT greeting VARCHAR(40))  
  LANGUAGE SQL  
  MODIFIES SQL DATA  
  COLLID TEST  
  EXTERNAL NAME HELLO  
  WLM ENVIRONMENT DSNNWLM  
  ASUTIME LIMIT 60  
  RUN OPTIONS  
  'NOTEST(ALL,*,VADTCPIP&127.0.0.1:*)'
```

-- SQL Stored Procedure -----

```
P1: BEGIN
```

```
  SET greeting = 'Hello ' || name || '!';
```

```
END P1
```

Boktips

