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SAF TRACE Filtering by Class

 With V1R12, you can select trace events for RACROUTE and database (ICHEINTY) access by class.

```
SET TRACE(... CLASS(class ... |*) |
IFCLASS(class ... |*) |
NEVERCLASS(class ... |*) |
NOCLASS)
```

- CLASS is an inclusive setting
 - Trace events which match CLASS may be recorded.
 - Trace events which do not match CLASS() *may* be recorded if they
 match another setting, like ASID or JOBNAME.
- IFCLASS is an exclusive setting
 - Trace events which do not match IFCLASS are not recorded, even if they match another trace setting, like ASID or JOBNAME.
- NEVERCLASS
 - Trace events which match are NOT recorded, regardless of other settings

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SAF TRACE Filtering by User ID

With V1R12, you can also select trace events for RACROUTE by user ID:

```
SET TRACE(... USERID(userid ... |*) |
IFUSERID(userid ... |*) |
NEVERUSERID(userid ... |*) |
NOUSERID)
```

- USERID is an inclusive setting:
 - Trace events which match the user ID are recorded
 - Trace events which do not match USERID *may* be recorded if they match another setting, like CLASS or JOBNAME
- IFUSERID is an exclusive setting:
 - Trace events which do not match IFUSERID are not recorded, even if they match another trace setting, like CLASS or JOBNAME
- NEVERUSERID
 - Trace events which match are NOT recorded, regardless of other settings

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"Ghost" Generics

- RACF requires that SETROPTS GENERIC is in effect for a class before generic profiles are defined in the class
 - If not, the profile is created as a discrete profile, even if it contains generic characters such as "*", "&", or "%"
 - Profiles such as these are:
 - Not involved in access control decisions
 - Not what you intended
 - Not displayed by RLIST, except for "RLIST *"
 - Displayed by SEARCH without the "(G)" after the name
 - Annoyances to security administrators, systems programmers, and auditors
 - To fix, require that you turn GENERIC and GENCMD off for the class, delete the profile, SETROPTS GENERIC the class (which also turns GENCMD on), and redefine the profile.

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"Ghost" Generics...

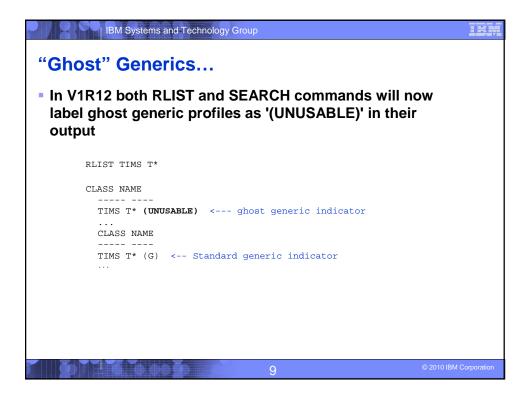
 With V1R12, RACF now issues a warning message when creating a profile which contains generic characters (*,% or &) in a non-generic class

ICH10321I The profile name *profile_name* contains genericharacters, but generics are not enabled for class *class_name*. A discrete profile has been created.

 The message is suppressed for profiles in the RACFVARS class, in which discrete profiles with generic characters are intentionally created

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"Ghost" Generics... NOGENERIC keyword added to the RDELETE command to facilitate the deletion of ghost generic RDELETE TIMS T* NOGENERIC Specifies that you want RACF to delete the discrete profile If a generic profile with the same name exists, it will be unaffected. SAF callable service R_admin also updated such that the delete function supports a GENERIC=N flag RACF panels also support NOGENERIC processing

Caller's psw in ACEE(x) and other places.. Many occurences of our callers CREATEing ACEEs and not deleting them. Also EXTRACT work areas. Symptoms ABEND878, etc. Z/OS V1R12 places the caller's address within the ACEX. First Failure Data Capture Not a lot of details (as ACEX is OCO) Extract work area too. 'ACEE' vs 'acee' (an ACEE that has been requested to BE deleted – but entire page has not 'gone away') in z/OS V1R11

