Handling of Resource Allocations

You can handle resource allocations and deallocations with the following statement:

```
CALLNAT 'NOPURE1N'    P-FUNCTION P-RC P-DBENV P-OWNER P-NETWORK P-RUN P-JOB
          P-RESOURCE P-QUANTITY P-DEALLOCATION P-JOB-EXECUTED
```

Meaning of the parameters:

Parameter	Format	Usage

P-FUNCTION	A01	in	Function code:

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A	Allocate resource.

R	Release one or several resources. • If job and resource name given: release only one allocated resource of one job. • If job given, but no resource: release all allocated resources of one job.

N	Network release. Release resources with deallocation = "N" as well. • If job and resource name given: release only one allocated resource of one job. • If job given, but no resource: release all allocated resources of one job. • If run number, but no job and no resource given: release all allocated resources of one network run. • If no run number and no job and no resource given: release all allocated resources of all network runs.
F	Forced release. Release resources with deallocation = "N" or "K" as well. For other parameters, see "R".
T	Test resource usage, sorted by active jobs. Subsequent calls read in the order of active jobs, then resource names. **Sequential reading** • The sequential reading starts at the first found resource in the order of active jobs, then resource names. • Fields returned by the previous call must be kept and passed for the next call. • P-RC = 5 (resource usage entry not found) is returned, if there are no more entries for this resource.
U	Test resource usage, sorted by resources, then by active jobs. **Sequential reading** • The sequential reading starts at the first found resource, in alphabetical order, where the name of the first found resource is equal or subsequent to the name passed in P-RESOURCE. • Fields returned by the previous call must be kept and passed for the next call. • P-RC = 5 (resource usage entry not found) is returned at the end of all resource usage entries.
V	Test resource usage, sorted by active jobs. Subsequent calls read in the order of resource names, then active jobs. **Sequential reading** • The sequential reading starts at the first found resource followed by the superdescriptor of the active job (identified by P-OWNER, P-NETWORK, P-RUN, P-JOB). • Fields returned by the previous call must be kept and passed for the next call. • P-RC = 5 (resource usage entry not found) is returned at the end of all resource usage entries.

P-RC	N03	out	Return code:	
			0	Function ok.
			1	Active job not found.
			2	Resource not defined for job.
			3	Resource (master) definition not found.
			4	Quantity is not available.
			5	Ok, but no resource usage entries were found. This code may be returned: ● if the resource has already been freed ● if the resource was never allocated.
			101	Invalid function code.
			102	Parameter(s) missing.
			103	Wildcard not allowed.
			104	DEALLOCATION has wrong value.
P-DBENV	A10	in	(For future use, currently ignored.)	
P-OWNER	A10	in	Owner. Wildcard allowed. Function "A": obligatory, no wildcard allowed.	
P-NETWORK	A10	in	Network. Wildcard allowed. Function "A": obligatory, no wildcard allowed.	
P-RUN	I4	in	Run. **Zero** means all runs of a network. Function "A": obligatory, no wildcard allowed.	
P-JOB	A10	in	Job. If **empty**, the whole network is meant. Wildcard allowed. Function "A": obligatory, no wildcard allowed. **Note:** If this API is used to free a resource and if the allocation was made by another job, this field must remain **empty**.	
P-RESOURCE	A20	in	Name of the resource. If empty, all prerequisite resource definitions of a job are meant. Function "A": obligatory, no wildcard allowed.	
P-QUANTITY	N7.2	in	Quantity to be allocated. Function "A"only.	

P-DEALLOCATION	A1	in	How to deallocate this allocation (for function "A" only).	
			J	after job termination
			N	after network termination
			K	keep until explicit release
			For a detailed description of deallocation modes, please see Periods of Resource Allocation in the section Resources.	
P-JOB-EXECUTED	L	in	Unreusable resources are decreased only if the job was really executed.	